



THE ARAB REPUBLIC OF EGYPT

MONTHLY WEATHER REPORT

VOLUME 18

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THE EGYPTIAN METEOROLOGICAL AUTHORITY
CAIRO

National Oceanic and Atmospheric Administration

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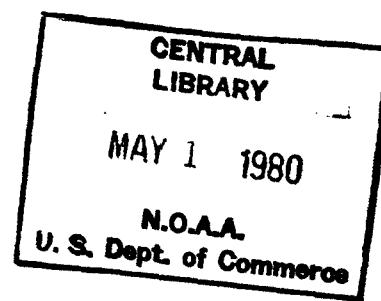
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PUBLICATIONS OF THE METEOROLOGICAL AUTHORITY OF THE ARAB REPUBLIC OF EGYPT—CAIRO

In fulfilment of its duties, the Egyptian Meteorological Authority issues several reports and publications on weather, climate and agro-meteorology. The principal publications are described on this page.

Orders for publications should be addressed to :

"Chairman of the Board of Directors, Meteorological Authority, Kubri-el-Qubbeh — CAIRO".

THE MONTHLY WEATHER REPORT

First issued in 1909, the Monthly Weather Report served to give a brief summary of the weather conditions that prevailed over Egypt during the month, with a table showing the mean values for few meteorological elements and their deviations from the normal values. From 1954 to 1957 this report was in a rapid state of development and extension resulting into a voluminous report on January 1958 giving surface, upper air, and agro-meteorological data for Egypt.

As from January 1964, the Monthly Weather Report was pressed to give climatological data for a representative selection of synoptic stations.

THE AGRO-METEOROLOGICAL ABRIDGED MONTHLY REPORT

Gives a review of weather experienced in the agro-meteorological stations of Egypt as well as monthly values of certain elements.

THE ANNUAL REPORT

This report gives annual values and statistics for the various meteorological elements, together with a summary of the weather conditions that prevailed during all months of the year.

CLIMATOLOGICAL NORMALS FOR EGYPT

A voluminous edition was issued in March 1968 which brings normals and mean values up till 1960.

METEOROLOGICAL RESEARCH BULLETIN

First issued in January 1969 on a bi-annual basis. It includes research works carried out by members of staff of "The Meteorological Institute for Research and Training" and the Operational Divisions of the Meteorological Authority.

TECHNICAL NOTES

As from October 1970, the Meteorological Authority started to issue a new series of publications in the form of Technical Notes (non periodical) on subjects related to studies and applications of meteorology in different fields for the benefit of personnel working in these fields.

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FOREWORD

Since 1909 the Meteorological Department of Egypt has been issuing regularly the Monthly Weather Report, giving a brief summary of the weather conditions prevailing over Egypt during the month. These reports used to include a table giving limited climatological data for some selected surface observations.

On January 1954, the Monthly Weather Report has been revised and the general summary of the weather conditions has been extended to give a more detailed description of the synoptic situations and the associated weather prevailing during the month.

On February 1955 a further extension took place, the general summary of the weather conditions has been classified into different items to give more comprehensive information. More detailed surface climatological tables for selected stations and table for miscellaneous weather phenomena have been added to the Report.

On January 1956, the climatological tables included in the Report have been extended to include upper air climatological data to meet the increasing demand for this information.

In addition the full text of the monthly report of the standard observations taken at the Central Agro-Meteorological Station at Giza has been included in this Report instead of issuing it as a separate bulletin.

On January 1957, the Report has been completely revised, a new set of meteorological tables has been introduced to give, as far as possible, complete information for surface and upper air data from a more representative network of stations.

In addition, a general review of the observations taken in the fields of the plant breeding farm at Giza is included in the Report.

The review gives a brief summary of the characteristic features of the different meteorological and micrometeorological elements of the month, more weight is given in this review to those elements which are of interest to agriculturists.

Starting from the Report of January 1958, the Monthly Weather Report for Egypt included a detailed description of the synoptic situations and the associated weather experienced all over the Republic during the month. The Report included a new set of tables giving more detailed surface and upper air climatological data for selected stations in the Republic. The review of the Agrometeorological station at Giza and the normal observations made at the field of the station were also included in the Report.

As from January 1960, these tables have been totally revised and some new tables have been introduced to include more detailed climatological data.

In order to explain how the tables included in these Monthly Weather Reports have been compiled, detailed notes are included in the Report of January giving informations about the instruments used and their exposure, the methods of observations and the methods of computing the means and frequencies.

As from January 1964, the Monthly Weather Report was again totally revised. The number of meteorological stations appearing in the Report have been concentrated in the main synoptic stations working mostly continuously 24 hours. In addition climatological data included in the Report will be confined to the monthly mean values, monthly totals, monthly frequencies and monthly absolute values. More specific climatological data have to be requested from the Meteorological Authority.

Starting from the Report of January 1958, the Monthly Weather Report of Egypt carries serial reference in volume and number; each year carries a serial number in volume,

Number I, being for January and 12 for December. The reference number of January 1958 is volume I, number I.

Cairo, March 1976

Chairman (A. F. HASAN)
Board of Directors

INTRODUCTION AND EXPLANATION OF THE TABLES

For the purpose of this Monthly Weather Report, the Arab Republic of Egypt is divided into six climatic districts as follows :

Number	District	Number	District
I	Mediterranean Area	IV	Upper Egypt
II	Lower Egypt	V	Western Desert
III	Cairo Area	VI	Red Sea Area

The data included in Tables A1, A2 A3, A4 & A5, are based on surface observations made at a representative selection of the basic network of synoptic stations. The data included in Tables B1, B2 B3 refer to Upper Air observations. The data included in Tables C1, C2, C3, C4 & C5, are based on observations taken at the Agro-Meteorological stations at Mersa Matruh, Tahrir, Bahitm, and Kharga. The observation fields at Mersa Matruh and Kharga are considered for the moment as dry and bare fields. At Bahtim and Tahrir there are grass fields covered with Libia in addition to the dry and bare fields.

The soil characteristics of these fields are :

	MERSA MATRUH	TAHIRIR	BAHTIM	KHARGA
Top soil type	not available at present	Pure sand	Permeable clay	Sandy loam granular non-compact
Top soil depth	"	More than 3 metres.	More than 1.5 metres	20 cms.
Sub soil type	"	Pure sand	Clay loam and loam	Platy clay. non compact
Slope of ground and its direction	"	1/2% towards East & North	Flat (0-0.3%)	Flat (0-0.3%)
Level of water table	"	More than 5 metres	1.0-1.5m. approximately.	More than 5 metres

Except for the wind speed which is expressed in knots, the metric units are used throughout this report and are as follows :

- The atmospheric pressure is expressed in millibars (one millibar = 1000 dynes per square centimetre = the pressure due to 0.7501 millimetre of mercury at 0°C at latitude 45°).
- Air and soil temperatures in degrees celsius (°C).
- Relative humidity (%),
- Rainfall in millimetres,
- Duration of bright sunshine in hours,
- Sky cover in octas,
- Evaporation in millimetres,
- Altitude of pressure surface in geopotential metres,
- Mean wind speed of the whole day, and of the day-time and the night-time intervals in metres per second,
- (Solar + Sky) radiation in gram-calories per centimetre square,
- Vapour pressure in millimetres.

TABLE A1.—**Monthly values of the Atmospheric Pressure, Air Temperature, Relative Humidity, Bright Sunshine Duration & Picbe Evaporation**

Atmospheric Pressure.

The monthly mean values of the daily atmospheric pressure corrected to Mean Sea Level (M.S.L.) are the arithmetic means over the month of their corresponding daily hourly values. The atmospheric pressure is measured by mercury barometers installed indoors; The Mean Sea Level Pressure (M.S.L.) is the barometer reading corrected for the height of the barometer cistern above or (below) the Mean Sea Level at the station. Corrections for index, temperature and latitude have been applied to the barometer readings before reduction to M.S.L. Deviations from normals appear besides monthly mean values in a separate column.

Air Temperature :

The monthly mean values of the maximum (A) and of the minimum (B) air temperatures are computed from their corresponding daily routine values observed over the month. The maximum (mercury) and the minimum (alcohol) thermometers are freely exposed in the louvered screens with their bulbs at a height of 160 to 170 centimetres above the ground. Deviations from normals appear besides monthly mean values.

The monthly mean values of $(A + B)/2$ are computed from their corresponding daily calculated values over the month.

The monthly mean values of the dry and of the wet bulb air temperatures are the arithmetic means over the month of their corresponding daily hourly values. The dry and wet bulb thermometers used are of the mercury type and are freely exposed in sloping double roofed louvered screens with their bulbs at a height of 140-150 centimetres above the ground. Deviations from normals appear beside monthly mean values in a separate column.

Relative Humidity :

The relative humidity at a certain hour is derived from the values of the dry and wet bulb temperatures using Jelinek's Psychrometer Tables (Leipzig 1911). The mean monthly relative humidity is the arithmetic mean over the month of its daily hourly values,. No corrections for wind speeds or atmospheric pressure are applied. Deviations from normals appear besides monthly mean values in a separate column.

Bright Sunshine Duration

The actual duration of bright sunshine for the month is the sum of the actual daily bright sunshine durations. The total possible duration for the month is the sum of the daily calculated periods between sunrise and sunset. In calculating the possible duration of sunshine for a given day, the periods of cut-off for that day caused by obstacles, such as mountains are eliminated from the possible duration with an ideal flat horizon. In case of stations where the record of day or more is or are missing, the total actual duration is given between brackets and a note is added at the end of the table giving the actual number of records (days) used in summing up this total actual. In such cases the corresponding total possible duration is also given in brackets and it is the sum of the possible duration of the days of the available records. The percentage of the actual to the possible duration appears besides the total possible values in a separate column. The duration of bright sunshine is measured by the Campbell-Stokes sunshine recorders which are suitably exposed.

Evaporation (Piche) :

The monthly mean value of piche evaporation is computed from its daily routine values observed at 0600 UT over the month. Evaporation measurements are taken once daily at 0600 UT and give the evaporation for the previous 24 hours. The evaporation readings are measured by a piche tube freely exposed in sloping double roofed louvred screens, the evaporation disc has an effective area of 10.1 centimetres square, white in colour, and at a height of 140-150 centimetres above the ground.

TABLE A2.—**Maximum & Minimum Air Temperatures**

Higher and lower limits of both maximum and minimum temperatures and their corresponding dates of occurrences during the month are extracted from the daily readings of maximum (mercury) and minimum (alcohol) thermometers respectively. These dates are included for actual occurrences up to three ; when exceeding three, the symbol* is added beside the last three dates.

The number of days during the month with maximum air temperature above 25°C, 30°C, 35°C, 40°C & 45°C and with minimum air temperature below 10°C, 5°C, 0°C & —5°C are included also in this table under separate columns.

The types and exposure of the maximum and of the minimum thermometers are as indicated in the notes on table A1.

The monthly mean values of grass minimum temperatures are the arithmetic means over the month of their corresponding daily values. The grass minimum temperatures are measured by ordinary minimum(alcohol)thermometers suitably exposed in the open air at the station field on special stands with their bulbs at a height of 5 centimeters above ground just touching the grass tops if there is any. Grass minimum thermometres readings are taken daily as a routine base at 0600 U.T. Deviations from normals appear besides mean values in a separate column.

TABLE A3.—Sky Cover & Rainfall

The monthly mean values of the total sky cover at the principal hours (00,06,12 & 18UT) are computed from their corresponding daily routine values observed during the month. Mean values of the daily total sky cover is the arithmetic means over the month of the daily hourly values or of the daily observations taken at the 8 synoptic hours (00, 03, 06, 09, 12, 15, 18 & 21 U.T.). Sky cover is in octas.

The monthly total rainfall is the total rainfall during the month. The maximum daily rainfall and the number of days with rain < 0.1 and more than or equal 0.1, 1, 5, 10, 25 & 50 mm are extracted from the routine daily rainfall totals during the month. The rainfall for a given day is the amount of rain which has fallen during the 24 hours commencing at 0600U.T of that day; when the amount of rain which has fallen is not large enough to be measured (less than 0.1 mm) the term "Trace" is entered as (Tr.). The amount of rainfall measured includes the water equivalent of the rain water which has frozen after falling and the water equivalent of solid precipitation if any such as hail. Dates of maximum rain in 24 hours are included for actual occurrences up to three ; when exceeding three, the symbol* is added besides the last three dates.

The amount of rainfall is normally measured by ordinary rain gauges. Some selected stations are also equipped with a recording type of rain gauge. The rim of both types of gauges are at a height of 90-100 centimetres above the ground.

TABLE A4.—Number of Days of Occurrence of Miscellaneous Weather Phenomena

This table gives the number of days of occurrence of rain, snow, ice pellets, hail, frost, thunderstorm, mist, fog, haze, thick haze, dust or sandrising, dust or sandstorm, gale, clear sky & cloudy sky. Except for rain (see notes on table A3) the days of occurrence of these weather phenomena are those days during which the phenomenon has occurred at any time between 2200, and 0600 U.T.

In compiling this table, the terminology and definitions of these different weather phenomena are as follows.

—A day of rain is the day during which the total amount of rainfall is 0.1 millimetre or more.

—A day of snow is the day during which snow or snow flakes or snow showers is or are observed even if it is or (they are) so small in quantity as to yield no measurable amounts of precipitation in the rain-gauge.

—A day of ice pellets is the day during which ice pellets are observed even if they are so small in quantity as to yield no measurable amounts of precipitation in the rain-gauge.

—A day of hail is the day during which either one or more of the following types of precipitation is or are observed, even if they are so small in quantity as to yield no measurable precipitation in the rain-gauge :

—Soft hail

—Small hail

—Hail stone

—A day of frost is the day during which frost is observed at the station.

—A day of thunderstorm is the day during which thunder is heard at the station whether lightning is seen or not. A day on which lightning is seen but thunder is not heard at the station is not counted as a day of thunderstorm.

—A day of mist is the day during which the surface horizontal visibility at the station has deteriorated and became equal to or greater than 1000 metres due to mist.

—A day of fog is the day during which the surface horizontal visibility at the station has deteriorated and fell below 1000 metres due to fog.

—A day of haze is the day during which the horizontal visibility at the station has deteriorated and became equal to or greater than 1000 metres due to haze.

—A day of thick haze is the day during which the horizontal visibility at the station has deteriorated and fell below 1000 metres due to thick haze.

—A day of dust or sandrising is the day during which the horizontal visibility at the station has deteriorated and became equal to or greater than 1000 metres due to dust or sandrising.

—A day of dust or sandstorm is the day during which the horizontal visibility at the station has deteriorated and fell below 1000 metres due to dust or sandstorm.

—A day of gale is the day during which the mean surface wind speed reached or exceeded 34 knots at the station for at least 10 minutes.

—A day of clear sky is the day on which the mean cloud amount at the station is less than 2/8.

—A day of cloudy sky is the day on which the mean cloud amount at the station is 6/8 or more

As regards the last two items above, the mean cloud amount for a day is the mean of the 24 hours, the 8 synoptic hours or the 4 main synoptic hours of cloud observations according to the number of the routine observations taken at the station.

TABLE A5.—Number in Hours of Occurrences of Concurrent Surface Wind Speed and Direction Recorded Within Specified Ranges.

The elements used in preparing this table are the mean hourly values of the surface wind speed and the corresponding mean hourly values of direction taken from the daily records of the surface wind instruments installed at the stations. These mean hourly values are extracted for every hour of each day of the month and they refer to a period of 60 minutes centred at the hour.

The number in hours of occurrences of the surface wind falling within the ranges of speed and direction indicated in the table is the number of cases when the mean hourly values of the surface wind as defined have satisfied these ranges.

The number in hours of "variable" winds is the number of cases where the surface wind showed no definite direction over the period of the 60 minutes centred at the hour or when the wind vane was sticking over that period due to the lightness of the wind and not responding to the variation in wind direction; in such cases the mean wind speed over this period is normally less than 5 knots. The number in hours of "calm" winds is the number of cases where the surface wind has a mean speed of less than one knot over that period, whatever the mean wind direction over the same period is. The number in hours during which the recording instrument failed to record over the whole month is given under a separate column.

The instruments used for recording the surface wind are of the Dines Pressure Tube Anemograph.

This table follows the general lines of Model B of chapter 12 part IV of the W. M. O. Technical Regulations 1959. The ranges of wind speed are (1-10), (11-27), (28-47) knots and 48 knots or more; the ranges for wind direction are twelve ranges of 30° each, beginning with the range (345°-014°) as being the true north.

This table gives the following data :

- The total number in hours of simultaneous occurrences of surface wind satisfying the specified ranges of speed and direction during the month,
- The total number in hours of occurrences of surface wind satisfying the specified ranges of speed during the month irrespective of their direction,
- The total number in hours of occurrences of surface wind blowing from the specified range of direction during the month irrespective of their speed.

UPPER AIR DATA

TABLE B1.—**Monthly Means and Monthly Absolute Higher & Lower Values of Altitude air Temperature & Dew point at Standard and Selected Pressure Surface**

The routine upper air observations are taken at 0000 and 1200 UT, a separate table of this type is prepared for each hour. The number of cases the height of each of the pressure surfaces indicated in the table has been attained during the month, and the number of cases the temperatures and the dew points have been observed at each of these surfaces are given in the table against each element under column (N).

The monthly mean values of the altitude, temperature and dew point at each of these pressure surfaces are the arithmetical means of the corresponding daily values over the number of cases (N) indicated against each element. Whenever it is not possible to obtain a complete set of daily values, a useful monthly mean value may be obtained as the mean of available values, taking in consideration ; (a) number of missing observations not more than 10, and (b) there is no continuous period of 5 days without an assigned value.

The instruments used are of the radiosonde modulating frequency recording type ; the types of transmitters used do not need to apply any corrections for radiation.

This table follows the general lines recommended by the Commission for Climatology of the World Meteorological Organization Rec. 34 (CCL-1) ; it gives the following data for the hour of observation indicated at the top of the table :

- The number of cases the height of each of the pressure surfaces has been attained during the month and the number of cases the temperature and dew point at these surfaces have been observed.
- The monthly mean values of the atmospheric pressure corrected to the ground level of the station (H) ; the highest and lowest values of this pressure observed during the month,
- The monthly mean values of the air temperature and of the dew point at the surface ; the highest and lowest values of the surface air temperature observed during the month.
- The monthly mean, the highest and the lowest values of the altitude for each of the pressure surfaces,
- The monthly mean, the highest and the lowest values of air temperature ; and the mean dew point at each of the pressure surfaces.

TABLE B2.—**Mean and Extreme Values of the Freezing Level and the Tropopause ; The Highest Wind Speed in the Upper Air**

The routine upper air observations are taken at 0000 and 1200 U.T. The number of cases the altitude of the freezing level and of the first tropopause have been attained during the month and the number of cases the pressures and the dew points or temperatures have been observed at these levels are given in the table against each element in the (N) box.

The monthly mean values of the altitudes of the freezing level and of the first tropopause and the monthly mean values of the pressures and of the dew points or temperatures at each of these levels are the arithmetical means of the corresponding daily values over the number of cases (N) indicated in the box of each element.

The first tropopause is determined in accordance with the definition adopted by the Executive Committee of the World Meteorological Organization Resolution 21 (Ec - IX).

This table is based on wind observations taken by the SCR-658 or the Metox radiotheodolites working simultaneously with the radiosonde observations. The types of radiosonde instruments used are given in the notes on table B1.

This table gives the following data for each hour of observation :

—The number of cases the freezing level has been attained during the month and the number of cases the pressure and dew point have been observed at this level.

—The number of cases the altitude of the first tropopause has been attained during the month and the number of cases the pressure and the temperature have been observed at this level.

—The monthly mean values of the altitude, pressure and dew point of the freezing level.

—The altitudes, pressures and dew points of the highest and lowest freezing level observed during the month.

—The monthly mean values of the altitudes, pressures and temperatures of the first tropopause.

—The altitudes, pressures and temperatures of the highest and lowest first tropopause observed, during the month.

—The direction and speed of the highest wind speed observed during the month, the altitude and the pressure at which this wind has been observed.

TABLE B3.—Number of Occurrences of Wind Direction Within Specified Ranges and the Mean Scalar Wind Speed at the Standard and Selected Pressure Surfaces

The routine upper air observations are taken at 0000 and 1200 U.T. A separate table of this type is used for each station.

The mean scalar wind speed "ffm" of winds blowing from each range of directions at a given pressure surface, is the arithmetical mean of the corresponding daily values of wind speed for the number of cases "N" during the month.

The term "Calm" is used in this table to denote wind speed of less than one knot.

This table is based on the wind observations taken at the station as indicated in the notes on table B2.

This table, as in the case of table B1, follows the general lines recommended by the Commission for Climatology of the World Meteorological Organization REC. 34 (CCL-1). The ranges of wind direction used are twelve ranges of 30° each beginning with the range (345°—014°) as being the true north. It gives for the hour of observation indicated the following data :

—The number of cases (N) the wind has been observed from the specified ranges of direction at the surface of the station and at the different pressure surfaces during the month.

—The mean scalar wind speeds (ffm) blowing from the specified ranges of direction at the surface of the station and at the different pressure surfaces,

—The number of cases of "calm" winds at the surface of the station and at the different pressure surfaces

—The total number of cases (TN) the wind has been observed at the surface of the station and at different pressure surfaces during the month irrespective of the wind direction

—The mean scalar wind speeds at the surface of the station and at the different pressure surfaces blowing from all directions

AGRO-METEOROLOGICAL DATA

Reviews of Agrometeorological Stations at Mersa Matruh, Tahrir, Bahsim & Kharga.

The monthly review of all agrometeorological elements that have been observed at each agrometeorological station includes a general summary of pronounced weather phenomena that prevailed during the month together with a comparison between the monthly values and average values of specified elements that are of great interest to agriculturists as well as to agrometeorologists. For recently operated stations departure from last year values appears in the monthly review.

During winter, the monthly review includes normally the days of minimum air temperature below 0°C at the height of five centimetres above the ground.

TABLE C1.—Air Temperature at 1½ Metres Above Ground

The monthly mean values of the maximum, minimum, night-time mean, day-time mean and mean of day of air temperatures are the arithmetic means over the month of their corresponding daily mean values. The mean air temperature of a day is the mean of the eight values of the dry bulb temperature at each of the principal and secondary observation hours, the value at 0000, 0300, & 2100 U.T. being extracted from the record of the dry bulb thermometer of a mercury in steel hygrograph, except at Mersa Matruh and Kharga where they are obtained from visual readings.

The night-time mean temperature of a day is the mean temperature for the period from sunset of the previous day to sunrise of the same day. The day-time mean temperature refers to the period from sunrise to sunset of the same day. Both night-time and day-time mean temperatures are computed from empirical formulae, which may vary from month to month but are common for all centres. These formulae were found by trial comparison with true means of the year 1966. The errors were never permitted to reach a whole degree, and usually stayed equal to or lower than 0.5°C.

The duration of air temperatures above a specified limit of temperature is obtained graphically from the same recording charts, daily to the nearest whole hour.

The maximum (mercury), the minimum (alcohol) and the dry bulb (mercury ventilated) thermometers are freely exposed in louvred Stevenson screens of the Egyptian type with their bulbs at a height of 190-195 centimetres above ground for the maximum and minimum thermometers, and 170 cms approximately for the dry bulb thermometer ; the recording thermometer used is of the bi-metallic type and is exposed in a similar screen ; the height of the bi-metallic piece is 165 centimetres approximately above the ground.

TABLE C2.—Extreme Values of Maximum & Minimum Air Temperatures at 1½ metres above Ground, Absolute Minimum Air Temperature at 5 cms above Ground over Different Fields.

The extreme values of maximum and minimum air temperatures at 1½ metres above ground and of minimum air temperatures at 5 cms above ground over different fields are extracted from their routine values. Dates of occurrences are included in separate columns beside the extreme value. Extreme values of maximum & minimum air temperature at 1½metres inculde the Highest & Lowest limits of the daily corresponding routine values during the month.

The thermometres used for minimum air temperature at 5 cms above ground are of the ordinary minimum type (alcohol) with the bulbs screened with small separate screens of horizontal 5 cm. length and 2 cm. diameter metal tubing painted white outside and black inside, and centered on the thermometer bulbs.

TABLE C3.—(Solar + Sky) Radiation, Duration of Bright Sunshine, Relative Humidity.
Vapour Pressure at 1½ meters above Ground, Evaporation & Rainfall.

The monthly total values of Bright Sunshine duration, & Rainfall are the sums of their corresponding daily values for the month. The monthly mean values of the (Solar + Sky) Radiation, Relative Humidity & Vapour pressure at 1½ metres and Evaporation are the arithmetic means of their corresponding daily mean values for the month.

The (Solar + Sky) Radiation is obtained from the records of a Robitzsch Actinograph ; the Robitzsch values at Bahtim, Tahrir and Kharga are regularly compared with the records of an Eppley pyrheliometer installed at the station. The sensitive elements of the Robitzsch Actiongraph and of the Eppley phyrheliometer are at 100 cms approximately above the ground.

The types of instruments used for the measurement of the duration of bright sunshine, their exposure and the evaluation of the durations are as given in the notes on table A1.

The relative humidity and vapour pressure values for Tahrir, Bahtim and Kharga are derived from the readings of ventilated dry and wet bulb mercury thermometers freely exposed in the screen using the Aspirations psychrometer Tafeln of the Deutschen Wetterdienst 1955. The relative humidity and vapour pressure values for Mersa Matruh are derived from the readings of unventilated dry and wet bulb mercury thermometers freely exposed in the screen, using the Jelineks Psychrometer Tables (Leipzig 1911). No corrections are applied for the wind speeds or the atmospheric pressure. The height of the bulbs is 170 cms approximately above the ground.

The mean relative humidity or vapour pressure for a given day is the mean of the eight principal and secondary observation values which are extracted from the readings of the dry and wet bulb thermometers, the values at 0000, 0300, and 2100 U.T. being extracted from the records of the mercury in steel hygrograph except at Mersa Matruh and Kharga where these values are obtained from visual readings of the dry and wet bulb thermometers.

The mean monthly values of the relative humidity or vapour pressure are the means of the corresponding mean daily values during the month. The lowest value of the relative humidity and its date of occurrence are obtained from the records of a hair hygrograph exposed in the screen, the height of the hair is 170 centimetres approximately above the ground.

The extreme maximum and minimum values of vapour pressure during the month are extracted from the values of the eight principal and secondary observations.

Evaporation measurements are taken once daily at 0600 U.T. from a Piche tube and also a class "A" evaporation pan and give the evaporation for the previous 24 hours. The Piche tube is installed in the screen with the dry bulb, maximum and minimum thermometers ; the colour and effective area of the evaporation disc are as given in the notes on table A1. The class "A" evaporation pan is of the type recommended by the Commision of Instruments and Methods of Observation of the World Meteorological Organization Rec 42 (CIMO-56); it is of a cylindrical shape, 25.4 centimetres deep, 120.6 centimetres in diameter (inside dimentions). The pan except at Bahtim is freely exposed in the open air in the dry field, its rim at a height of 41 centimetres above ground away from obstacles such as buildings or trees. At Bahtim the pan is protected from animals and birds by a cylindrical cover of the same diameter as the pan and 30 cm high made of metal wire mesh of one cm, side. Reduction of evaporation by 11%—established by systematic study—is being allowed for in the data published.

The types of instruments used for measuring the amount of rainfall, their exposure and the evaluation of these amounts are given in the notes on table A3.

TABLE C4.—Extreme Soil Temperature at Different Depths (cms) in different Fields

The highest and lowest values of soil temperatures at the selected depths in different fields are extracted from their corresponding daily routine values.

The soil temperature readings are taken in different fields at the specified depths ranging from 2 cms to 300 cms in each field as indicated in the table. These readings are taken regularly during the period from 0600 to 1800 U.T. according to the following schedule, except at Kharga where the observations are as appropriate but extend in the period between 1800 and 0600 U.T.

- at 0600 U.T. and every three hours for the 2,5 and 10 cm depths.
- at 0600 U.T. and every six hours for the 20 and 50 cms depths.
- at 1200 U.T. for the 100 and 200 cms. depths.
- at 0900 U.T. once every 3 days for the 300 cms depth.

The thermometers used are of the Fuess or the Friedrich types.

TABLE C5.—Surface Wind

The monthly values of the daily mean, the night time mean and of the day time mean of the surface wind speed are the arithmetic means of their corresponding daily evaluated values for the month respectively. The mean wind speed of the day is computed for the period of 24 hours from 1800 U.T. of the previous day ; the night-time mean wind speed of the day is obtained from the total run of air during the period 1800 U.T. of the previous day to 0600 U.T. of that day ; the day-time mean is similarly computed for the period 0600 to 1800 U.T. of the same day. The type of the wind instrument used is of the run counter of the Lambrecht type ; the cups of which are at $1\frac{1}{2}$ metres above the ground.

The number of days with surface wind speed reaching or exceeding specified values of velocities (>10 Knots, >15 Knots, ≥ 20 Knots, ≥ 25 Knots, ≥ 30 Knots, ≥ 35 Knots and ≥ 40 Knots) for at least 5 minutes at any time between 2200 & 2200 U.T. irrespective of its direction are extracted from the daily routine analysis of surface wind records during the whole month. The daily records of the Dine Pressure Tube Anemograph are used, the highest gust refers to the highest excursion made by the velocity pen on the records during the month. The head of the instrument is at a height of 10 metres above the ground level.

LIST OF STATIONS APPEARING IN THE REPORT—SYNOPTIC AND CLIMATOLOGICAL STATIONS

District.	Station	Index Number II iii	Latitude • N	Longitude • E	Elevation of the ground H or Ha (metres)	Altitude of the Station Hp (metres)	Altitude of the barometric Cistern (metres)	Height of Wind recording instrument (metres)	Synoptic Observations							Upper air observations P (Pilot Ballon) W (Radio Wind) R (Radio Sonde)	Remarks			
									above build- ing	above groun-	00	03	06	09	12	15	18	21		
Mediterranean	Sallum	62	300 31 33 25 11	4.0	6.0	5.2	10.0	14.0	x	x	x	x	x	x	x	x	x	H	P	—
	Mersa Matruh . . . (A)	306	31 20 27 13	30.7	30.0	30.0	10.0	17.5	x	x	x	x	x	x	x	x	x	H	RW	—
	Alexandria (A)	318	34 12 29 57	-3.35	6.78	6.45	10.0	22.08	x	x	x	x	x	x	x	x	x	H	P	—
	Port Said (A)	333	31 17 32 14	1.1	6.1	2.7	—	—	x	x	x	x	x	x	x	x	x	H	P	—
	El Arish	336	31 07 33 45	—	—	—	—	—	—	—	—	—	—	—	—	—	—	H	—	—
	Ghazza	338	31 30 34 27	—	—	—	—	—	—	—	—	—	—	—	—	—	—	H	—	—
Lower Egypt	Tanta	348	30 47 31 00	7.31	14.85	12.51	10.0	12.0	x	x	x	x	x	x	x	x	x	H	—	—
	Cairo Area (A)	366	30 08 31 24	111.54	74.5	64.72	—	—	10.0	x	x	x	x	x	x	x	x	h	—	—
Upper Egypt	Heliwan	378	29 52 31 20	139.26	140.68	140.68	—	10.0	x	x	x	x	x	x	x	x	x	—	RW	—
	Fayoum	381	29 18 30 51	23.43	—	—	10.0	13.8	—	x	x	x	x	x	x	x	x	H	—	—
	Minya (A)	387	28 05 30 44	39.0	40.5	44.2	10.0	20.15	x	x	x	x	x	x	x	x	x	P	—	—
	Assyout (A)	393	27 11 31 06	71.08	69.6	69.6	15.0	20.0	x	x	x	x	x	x	x	x	x	H	—	—
	Luxor (A)	405	25 40 32 42	95.0	88.45	88.45	10.0	21.0	x	x	x	x	x	x	x	x	x	P	—	—
	Aswan (A)	414	23 58 32 47	200.0	193.5	198.95	10.0	15.0	x	x	x	x	x	x	x	x	x	RW	—	—
Western Desert	Siwa	417	29 12 25 29	-15.0	-13.26	-13.26	10.0	14.6	x	x	x	x	x	x	x	x	x	H	P	—
	Bahariya	420	28 20 28 54	128.0	129.5	129.5	—	—	x	x	x	x	x	x	x	x	x	H	P	—
	Farafra	423	27 03 27 53	90.0	92.1	92.1	—	—	x	x	x	x	x	x	x	x	x	H	P	—
	Dakhla	432	25 29 29 00	106.21	111.27	107.75	10.0	14.7	x	x	x	x	x	x	x	x	x	H	P	—
	Kharga	435	25 27 39 32	77.79	72.75	78.68	10.2	14.2	x	x	x	x	x	x	x	x	x	H	P	—
Red Sea	Tor	459	28 14 33 37	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	Hurghada	462	27 17 33 46	1.0	2.75	2.75	10.0	15.0	x	x	x	x	x	x	x	x	x	H	P	—
	Quseir	465	26 08 34 18	8.7	10.83	10.0	10.0	14.4	x	x	x	x	x	x	x	x	x	H	P	—

GENERAL SUMMARY OF WEATHER CONDITIONS

JANUARY 1975

Cold winter weather. Rather normal rainfall.

PRESSURE DISTRIBUTION

Three depressions passed through the East Mediterranean on the 3rd, 10th & 31st.

Three troughs extended northward from the low pressure over Sudan & Arabia through the East Mediterranean during the periods (14th — 17th), (21st — 23rd) & (25th, 26th).

Relatively high pressure established over the region in the rear of the depressions or troughs.

SURFACE WIND

In north SWly winds blew by the transit of depressions or troughs, while N to NWly prevailed in their rears. In south winds were mostly Nly and NWly. Wind speeds were generally light to moderate, but fresh to strong at times during several days in scattered places.

TEMPERATURE

Cold waves prevailed in succession the whole month. This gave rise to subnormal maximum and minimum air temperatures most days of the month. Departures from normal were generally slight to moderate.

The highest and lowest maximum air temperatures reported were respectively : 25.8°C at Luxor on the 31st & 13.1°C at Sallum on the 11th.

The highest and lowest minimum air temperatures reported were respectively : 16.0°C at Quseir on the 26th & -2.3°C at Dakhla on the 10th.

PRECIPITATION

Light to moderate rain fell over the Mediterranean district during many days of the month, and over Lower Egypt & Cairo during few days. Rain was heavy in few places round the 11th, 15th, 26th.

The monthly rainfall amounts showed irregular departures from normal, slight in general.

The maximum monthly rainfall reported was 61.5 mm. at Sidi Barrani.

The maximum daily rainfall reported was 35.1 mm. at Mersa Matruh on the 15th.

OTHER WEATHER PHENOMENA

Early morning mist developed during several days over scattered places in Delta, Cairo and north of Middle Egypt.

Rising sand was reported during few days at some places.

Chairman (A. F. HASAN)

Board of Directors

SURFACE DATA

**Table A 1.—MONTHLY VALUES OF THE ATMOSPHERIC PRESSURE, AIR TEMPERATURE,
RELATIVE HUMIDITY, BRIGHT SUNSHINE DURATION & PICHE EVAPORATION**

JANUARY — 1975

STATION	Atmospheric Pressure (mbs) M.S.L.		Air Temperature °C							Relative Humidity %		Bright Sunshine Duration (Hours)			Piche Evaporation mm Mean		
	Mean	D.F. Normal or Average	Maximum		Minimum		A+B 2	Dry Bulb		Wet Bulb		Mean	D.F. Normal or Average	Total Actual	Total Possible	%	
			(A) Mean	D.F. Normal or Average	(B) Mean	D.F. Normal or Average		Mean	D.F. Normal or Average	Mean	D.F. Normal or Average						
Sallum	1020.4	+3.2	17.3	-1.5	8.8	-0.6	13.0	12.6	-1.0	8.9	-1.1	59	+ 1	—	—	—	4.7
Mersa Matruh.(A)	1019.4	+2.1	16.9	-1.2	8.6	+0.3	12.8	12.4	-0.4	8.9	-0.8	64	+ 1	196.6	320.4	61	4.0
Alexandria . (A)	1019.6	+1.9	17.7	-0.8	8.5	-0.6	13.1	12.8	-0.8	10.2	-0.7	72	+ 2	172.0	322.0	53	2.7
Port Said. . (A)	1018.6	+1.3	18.3	+0.2	10.4	-0.9	14.4	13.6	-0.7	10.4	-1.8	66	- 6	214.4	322.0	67	4.0
El Arish	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Ghazza	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tanta. . . .	1018.9	+1.4	18.6	-1.0	6.0	-0.3	12.2	11.5	-1.0	9.2	-0.6	74	+ 6	226.8	322.8	70	2.7
Cairo (A)	1019.8	+1.9	18.0	-1.1	9.1	+0.3	13.6	13.3	-0.4	9.6	-0.3	61	+ 3	—	—	—	7.7
Fayoum. . . .	—	—	19.5	-0.9	4.6	-1.6	12.0	11.8	-1.0	8.6	-0.8	65	+ 5	—	—	—	3.1
Minya. . . . (A)	1020.6	+2.1	19.3	-1.3	3.3	-0.6	11.3	11.0	-0.8	7.6	-0.5	63	+ 6	256.1	328.2	78	4.5
Assyout. . . . (A)	1020.6	+2.2	18.5	-2.2	5.1	-1.5	11.8	11.3	-2.1	7.6	-0.8	59	+12	—	—	—	5.3
Luxor. . . . (A)	1018.8	+1.6	21.5	-1.5	4.3	-1.1	12.9	12.5	-1.6	8.2	-1.4	55	+ 4	—	—	—	3.8
Aswan. . . . (A)	1018.7	+1.6	20.7	-3.1	7.4	-0.6	14.0	13.7	-1.9	7.9	-1.0	42	+ 8	—	—	—	9.7
Siwa. . . .	1021.1	+2.7	18.3	-1.4	6.3	+1.6	12.3	11.9	0.0	8.1	+0.2	58	+ 6	265.7	326.2	81	6.2
Bahariya. . . .	1020.7	+2.1	18.4	-1.6	5.2	+0.3	11.8	11.7	-0.9	7.4	-0.4	54	+ 7	—	—	—	5.2
Farafra. . . .	1022.8	+2.5	18.7	-1.9	3.8	-0.3	11.2	11.1	-1.2	6.5	-0.1	49	+ 6	—	—	—	5.3
Dakhla	1021.1	+2.6	19.1	-1.3	3.0	-1.1	11.0	10.7	-1.3	6.6	-0.6	54	+15	—	—	—	8.9
Kharga	1020.1	+2.2	20.0	-2.2	4.8	-1.0	12.4	12.6	-1.3	7.6	-0.4	52	+ 9	275.1	333.9	82	5.0
Tor	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hurghada	1018.0	+1.4	20.5	-0.4	9.1	-0.5	14.8	14.6	-1.2	9.6	-1.3	48	+ 3	269.7	330.7	82	6.9
Quseir	1018.1	+1.4	20.8	-1.7	14.3	+0.5	17.6	17.1	-1.0	11.1	-1.5	43	+ 5	—	—	—	7.5

Table A 2.—MAXIMUM AND MINIMUM AIR TEMPERATURES

JANUARY -- 1975

Station	Maximum Temperature °C					Grass Min. Tmp.					Minimum Temperature °C					No. of Days with Min, Temp.			
	Highest	Date	Lowest	Date	No. of Days with Max-Temp.					Mean	Dev. From Normal	Highest	Date	Lowest	Date	No. of Days with Min, Temp.			
					>25	>30	>35	>40	>45						<10				
Sallum	19.8	28	13.1	11	0	0	0	0	0	7.5	—	11.6	13	4.7	2	21	1	0	0
Mesra Matruh (A)	20.0	29	13.8	10	0	0	0	0	0	7.0	—	11.7	30	6.3	2	26	0	0	0
Alexandria . . (A)	20.8	30	15.6	3.23	0	0	0	0	0	6.1	—	11.8	11	5.6	29	25	0	0	0
Port said . . (A)	21.2	21	15.6	16	0	0	0	0	0	7.9	—	12.6	23,31	7.5	5	8	0	0	0
El Arish	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Ghazza	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tanta	22.3	1	16.0	11	0	0	0	0	0	9.0	—	31	3.6	20	31	8	0	0	0
Cairo . . . (A)	21.2	1	15.7	11	0	0	0	0	0	—	—	12.2	30	6.3	13	25	0	0	0
Fayoum	21.8	30	16.5	11	0	0	0	0	0	0.8	—	8.7	12	2.1	20	31	19	0	0
Minya . . . (A)	22.2	30	15.6	16	0	0	0	0	0	0.5	—	6.9	26	0.6	19	31	25	0	0
Assyout. . . (A)	22.0	30	15.5	11.16	0	0	0	0	0	2.5	—	9.5	31	2.5	15	31	15	0	0
Luxor . . . (A)	25.8	31	17.2	26	1	0	0	0	0	0.9	—	11.4	26	0.7	4	30	21	0	0
Aswan . . . (A)	24.2	19	17.5	17	0	0	0	0	0	—	—	12.6	26	3.4	6	26	4	0	0
Siwa	22.0	30	16.0	2	0	0	0	0	0	5.7	—	10.5	30	3.2	14	27	12	0	0
Bahariya	21.4	30	14.8	16	0	0	0	0	0	4.5	—	11.2	25	1.7	20	29	16	0	0
Fafra	23.0	1	16.0	11	0	0	0	0	0	2.8	—	8.8	31	0.7	5	31	24	0	0
Dakhla	23.6	30	13.3	18	0	0	0	0	0	2.8	—	9.3	26	-2.3	10	31	24	5	0
Kharga	24.0	31	17.1	26	0	0	0	0	0	2.2	—	10.0	26	0.0	10	30	16	0	0
Tor	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hurghada	25.0	31	17.7	26	0	0	0	0	0	11.1	—	10.8	26	6.8	10	23	0	0	0
Quseir	23.3	31	18.8	12	0	0	0	0	0	—	—	16.0	26	13.0	17	0	0	0	0

Table A 3.—SKY COVER AND RAINFALL

JANUARY — 1975

— 17 —

Station	Mean Sky Cover Oct.					Rainfall mms.										
	00	06	12	18	Daily	Total Amount	Dev. From Normal	Max. Fall in one day		Number of Days with Amount of Rain						
	U.T.	U.T.	U.T.	U.T.	Mean			Amount	Date	<0.1	≥0.1	≥1.0	≥5.0	≥10	≥25	≥50
Sallum	4.2	3.3	4.5	3.9	3.9	38.3	+19.3	17.3	22	0	11	6	3	1	0	0
Mersa Matruh . . . (A)	3.3	5.0	4.9	3.6	4.2	60.7	+29.0	35.1	15	0	13	8	2	1	1	0
Alexandria . . . (A)	4.5	5.2	5.5	4.3	4.9	51.9	-0.7	13.7	26	2	16	9	4	1	0	0
Port Said . . . (A)	1.5	2.8	2.5	2.8	2.3	7.7	-4.7	3.1	17	1	9	3	0	0	0	0
El Arish	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Ghazza	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tanta	1.9	2.3	3.9	2.3	2.6	24.7	+14.0	19.2	16	0	9	2	1	1	0	0
Cairo (A)	1.4	1.9	3.6	2.1	2.4	9.0	+3.8	7.5	16	2	3	2	1	0	0	0
Fayoum	—	1.8	2.3	1.6	—	Tr.	-0.9	Tr.	15	1	9	0	0	0	0	0
Minya (A)	1.2	1.3	2.8	1.5	—	Tr.	-0.3	Tr.	15	1	0	0	0	0	0	0
Assyout (A)	0.2	0.8	1.6	0.5	0.7	0.0	Tr.	0.0	—	0	0	0	0	0	0	0
Luxor (A)	1.3	2.2	2.4	2.2	1.9	Tr.	-0.1	Tr.	16,17,22*	5	0	0	0	0	0	0
Aswan (A)	1.3	2.4	2.1	1.5	1.8	0.0	0.0	0.0	—	0	0	0	0	0	0	0
Siwa	3.6	3.5	3.1	2.0	3.0	0.0	-1.0	0.0	—	0	0	0	0	0	0	0
Bahariya	1.2	1.5	2.6	1.7	1.7	Tr.	-0.2	Tr.	16	1	0	0	0	0	0	0
Farafra	—	1.7	1.0	0.6	—	Tr.	-0.6	Tr.	16,26	2	0	0	0	0	0	0
Dakhla	0.3	1.5	1.8	0.6	0.9	0.0	-0.1	0.0	—	0	0	0	0	0	0	0
Kharga	1.0	1.8	2.2	1.1	1.5	0.0	-0.1	0.0	—	0	0	0	0	0	0	0
Tor	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hurghada	0.6	2.2	2.5	1.1	1.6	0.0	— Tr.	0.0	—	0	0	0	0	0	0	0
Quseir	1.3	2.5	2.9	1.8	2.1	0.2	+0.2	0.2	26	1	1	0	0	0	0	0

Table A 4.—DAYS OF OCCURRENCE OF MISCELLANEOUS WEATHER PHENOMENA.

JANUARY 1975

STATION	Precipitation				Frost	Thunderstorm	Mist Vis ≥ 1000 Metres	Fog Vis < 1000 metres	Haze Vis ≥ 1000 Metres	Thick Haze Vis < 1000 Metres	Dust or Sandrising Vis ≥ 1000 Metres	Dust or Sandstorm Vis < 1000 Metres	Gale	Clear Sky	Cloudy Sky
	Rain	Snow	Ice. Pellets	Hail											
Sallum	11	0	0	0	0	0	0	0	0	0	2	0	0	3	0
Mersa Matruh (A)	13	0	0	0	0	0	0	0	0	0	3	1	0	2	6
Alexandria (A)	16	0	0	0	0	1	1	1	0	0	1	0	1	1	4
Port Said (A)	9	0	0	0	0	0	0	0	0	0	0	0	0	1	14
El Arish	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Ghazza	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tanta	9	0	0	0	0	0	5	0	0	0	0	0	0	10	0
Cairo (A)	3	0	0	0	0	0	5	1	14	0	1	2	0	12	0
Fayoum	0	0	0	0	0	0	0	0	0	0	6	0	0	—	—
Minya (A)	0	0	0	0	0	0	17	1	7	0	1	0	0	20	0
Assyout (A)	0	0	0	0	0	0	2	0	0	0	1	0	0	25	0
Luxor (A)	0	0	0	0	0	0	0	0	25	0	2	1	0	19	3
Aswan (A)	0	0	0	0	0	0	0	0	2	0	5	0	0	20	0
Siwa	0	0	0	0	0	0	2	0	0	0	13	0	0	9	1
Bahariya	0	0	0	0	0	0	0	0	0	0	0	0	0	18	1
Farafra	0	0	0	0	0	0	0	0	0	0	0	0	0	—	0
Dakhla	0	0	0	0	0	0	0	0	0	0	1	0	0	25	0
Kharga	0	0	0	0	0	0	0	0	0	0	0	0	0	21	1
Tor	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hurghada	0	0	0	0	0	0	0	0	0	0	4	0	0	23	1
Quseir	1	0	0	0	0	0	0	0	0	0	0	0	0	17	2

TABLE A 5—NUMBER IN HOURS OF OCCURRENCES OF CONCURRENT SURFACE WIND SPEED AND DIRECTION RECORDED WITHIN SPECIFIED RANGES
JANUARY 1975

Station	Calm (hours)	Variable (hours)	Unrecorded (hours)	Wind speed in knots	Number in hours of occurrences of wind blowing from the ranges of directions indicated													All directions
					345	015	045	075	105	135	165	195	225	255	285	315	344	
					/	014	/	044	/	074	/	104	/	134	/	164	/	194
Salleeu	2	4	0	1—10	21	16	27	5	1	2	1	1	10	44	162	111	401	401
				11—27	2	0	0	1	0	0	0	0	48	130	130	25	336	
				28—47	0	0	0	0	0	0	0	0	0	1	0	0	0	1
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	23	16	27	6	1	2	1	1	58	175	292	136	738	
Mersa Matrah . . (A)	22	0	1	1—10	4	3	4	2	2	13	18	117	152	55	62	60	492	492
				11—27	8	0	0	0	0	0	14	75	55	21	15	37	225	
				28—47	0	0	0	0	0	0	0	2	2	0	0	0	0	4
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	12	3	4	2	2	13	32	194	209	76	77	97	221	
Alexandria . . (A)	0	1	0	1—10	58	51	7	5	6	24	60	112	39	46	27	88	523	523
				11—27	8	3	0	0	0	0	5	73	59	15	20	37	220	
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0	
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0	
				All speeds	66	54	7	5	6	24	65	185	98	61	47	125	743	
Cairo . . . (A)	75	0	0	1—10	27	36	28	38	15	29	63	67	58	67	45	35	508	508
				11—27	3	12	10	1	0	13	68	32	13	7	0	2	161	
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0	
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0	
				All speeds	30	48	38	39	15	42	131	99	71	74	45	37	669	
Fayoum . . (A)	9	3	8	1—10	127	94	18	12	8	25	53	108	98	51	48	56	698	698
				11—27	0	4	1	0	0	0	0	7	8	6	0	0	26	
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0	
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0	
				All speeds	127	98	19	12	8	25	53	115	106	53	48	56	724	
Minya . . (A)	40	7	0	1—10	232	36	6	2	1	53	37	12	18	25	18	111	581	581
				11—27	43	36	0	0	0	3	1	2	2	3	11	15	116	
				28—54	0	0	0	0	0	0	0	0	0	0	0	0	0	
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0	
				All speeds	275	72	6	2	1	56	68	14	20	28	29	126	697	
Asyout . . (A)	16	0	0	1—10	25	15	2	9	15	14	9	15	23	224	189	121	661	661
				11—27	19	3	0	0	0	0	1	4	2	7	11	20	67	
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0	
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0	
				All speeds	44	18	2	9	15	14	10	19	25	231	200	141	728	
Luxor . . (A)	182	0	0	1—10	57	58	39	29	16	37	108	66	49	53	71	56	639	639
				11—27	8	0	0	0	0	0	0	6	1	0	7	7	23	
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0	
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0	
				All speeds	63	58	39	29	16	37	108	66	50	53	78	63	662	

**Table A 5 (cont.) -NUMBER IN HOURS OF OCCURRENCES OF CONCURRENT SURFACE
WIND SPEED AND DIRECTION RECORDED WITHIN SPECIFIED RANGES**
JANUARY -- 1975

Station	Calm (hours)	Variable (hours)	Unrecorded (hours)	Wind speed in knots	Number in hours of occurrences of wind blowing from the ranges of directions indicated													All directions
					345	015	045	075	105	135	165	195	225	255	285	315		
					014	044	074	104	134	164	194	224	254	284	314	344		
<i>Aswan . . . (A)</i>	11	0	0	1—10	232	93	7	4	5	0	0	3	2	3	15	160	524	
				11—27	57	44	1	0	0	0	0	0	0	0	2	9	96	209
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0	9
				All speeds	289	137	8	4	5	0	0	3	2	5	24	256	733	
<i>Siwa . . . (A)</i>	36	0	0	1—10	16	8	6	10	25	23	16	21	36	162	173	72	568	
				11—27	5	1	0	0	1	2	0	13	16	37	40	25	140	
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0	
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0	
				All speeds	21	9	6	10	26	25	16	34	52	199	213	97	708	
<i>Dakhla . . .</i>	11	1	1	1—10	51	49	19	15	8	17	32	24	52	111	171	124	673	
				11—27	16	4	0	0	0	0	0	0	0	3	15	20	58	
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0	
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0	
				All speeds	67	53	19	15	8	17	32	24	52	114	186	144	731	
<i>Kharga . . .</i>	3	4	0	1—10	202	98	24	14	25	15	8	11	13	19	44	125	598	
				11—27	101	14	0	0	0	0	0	0	0	0	7	17	139	
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0	
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0	
				All speeds	303	112	24	14	25	15	8	11	13	19	51	142	737	
<i>Hurghada . . .</i>	0	0	0	1—10	29	8	7	1	4	1	2	0	8	97	172	48	377	
				11—27	21	0	0	0	0	2	0	0	0	59	164	118	367	
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0	
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0	
				All speeds	53	8	7	1	4	3	2	0	8	156	336	166	744	
<i>Quseir . . .</i>	2	0	0	1—10	47	20	16	4	1	1	4	1	15	169	96	25	399	
				11—27	118	1	0	3	0	0	0	0	2	48	81	88	341	
				28—47	0	0	0	0	0	0	0	0	0	0	0	2	2	
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0	
				All speeds	165	21	16	7	1	1	4	1	17	217	177	115	742	
<i>Cansel . . .</i>	2	0	1	1—10	47	20	16	4	1	1	4	1	15	169	96	25	399	
				11—27	118	1	0	3	0	0	0	0	2	48	80	88	340	
				28—47	0	0	0	0	0	0	0	0	0	0	0	2	2	
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0	
				All speeds	165	21	16	7	1	1	4	1	17	217	176	115	741	

UPPER AIR CLIMATOLOGICAL DATA

Table B 1.—MONTHLY MEANS AND MONTHLY ABSOLUTE HIGHER & LOWER
VALUES OF ALTITUDE, AIR TEMPERATURE & DEW POINT AT
STANDARD AND SELECTED PRESSURE SURFACES
JANUARY—1975

Station	Pressure Surface (Millibar)	Altitude of Pressure Surface (gpm.)				Temperature (°C)				Dew Point (°C)	
		N	Mean	Highest	Lowest	N	Mean	Highest	Lowest	N	Mean
Morat Matsu (A) 0000 U.T.	Surface	18	1017mb.	1025mb.	1010mb.	18	11.5	16.9	9.0	18	6.9
	1000	18	162	234	112	17	11.9	12.9	8.8	17	6.1
	850	18	1507	1576	1458	18	2.3	7.0	-1.1	18	-2.0
	700	18	3055	3148	3067	18	-4.9	-0.6	-9.1	18	-20.1
	600	18	4262	4359	4195	18	-12.4	-9.4	-16.5	18	-27.0
	500	18	5620	5745	5549	18	-21.7	-18.1	-25.0	18	-34.9
	400	18	7225	7375	7133	18	-33.7	-29.3	-38.9	18	-46.8
	300	18	9193	9358	9054	18	-45.8	-37.6	-53.6	18	-58.6
	250	18	10397	10554	10214	18	-51.0	-43.4	-57.3	18	-63.0
	200	18	11838	12016	11629	18	-53.8	-46.9	-59.5	14	-64.9
	150	18	13679	13806	13443	18	-56.0	-52.1	-59.5	12	-73.0
	100	17	16224	16389	15998	17	-62.1	-53.9	-68.5	2	-65.6
	70	13	18435	18627	18224	13	-63.2	-59.0	-69.5	—	—
	60	13	19410	19600	19150	13	-62.8	-59.0	-65.7	—	—
	50	12	20524	20737	20383	12	-62.4	-58.3	-65.6	—	—
	40	10	21960	22120	21800	10	-61.6	-57.5	-63.7	—	—
	30	8	23689	23756	235.0	8	-60.0	-56.0	-61.9	—	—
	20	5	26283	26456	26178	5	-57.1	-54.1	-59.4	—	—
	10	—	—	—	—	—	—	—	—	—	—
Helsinki 0000 U.T.	Surface	31	1003mb.	1011*mb.	996mb.	31	9.7	13.2	6.6	31	4.4
	1000	20	164	231	106	18	10.0	12.1	6.8	18	5.1
	850	20	1500	1559	1450	20	2.7	7.4	-0.2	20	-5.0
	700	20	3050	3124	3006	20	-3.4	1.6	-8.1	20	-19.8
	600	20	4254	4327	4183	20	-10.7	-7.0	-15.3	20	-27.1
	500	20	5633	5699	5536	20	-20.3	-16.3	-25.3	20	-35.6
	400	20	7248	7345	7106	20	-31.6	-26.6	-37.9	20	-46.4
	300	20	9225	9378	9045	20	-44.2	-39.2	-49.4	20	-57.0
	250	20	10430	10556	10258	20	-50.1	-42.0	-56.5	20	-62.3
	200	20	11875	12066	11738	20	-54.2	-47.5	-60.2	17	-65.9
	150	19	13715	13885	13585	19	-57.3	-52.7	-61.3	14	-67.9
	100	18	16233	16405	16049	18	-60.6	-59.4	-70.0	1	-68.0
	70	16	18406	18573	18191	16	-64.8	-60.9	-70.7	—	—
	60	16	19387	19520	19150	16	-64.1	-58.7	-67.5	—	—
	50	16	20467	20634	20223	16	-62.9	-58.1	-66.5	—	—
	40	12	21957	22000	21870	12	-62.1	-59.5	-64.4	—	—
	30	12	23636	23802	23558	12	-61.0	-57.7	-63.5	—	—
	20	10	26214	26408	26098	10	-57.6	-53.4	-61.3	—	—
	10	—	—	—	—	—	—	—	—	—	—
Avan (A) 0000 U.T.	Surface	22	996mb.	1002mb.	987mb.	22	10.3	15.0	6.4	22	0.5
	1000	22	162	210	82	3	7.9	9.8	6.5	3	0.5
	850	22	1511	1552	1443	22	6.8	12.7	1.4	21	-5.7
	700	21	3096	3147	3021	21	2.0	7.9	-2.2	21	-13.2
	600	20	4328	4455	4259	20	-4.3	-1.5	-7.7	20	-16.4
	500	20	5738	5816	5679	20	-13.1	-9.0	-15.7	20	-21.5
	400	20	7405	7488	7332	20	-23.8	-16.9	-27.0	20	-31.1
	300	19	9449	9538	9341	19	-38.8	-35.8	-43.3	18	-45.0
	250	18	10678	10774	10547	17	-47.5	-45.4	-52.5	17	-54.0
	200	17	12124	12226	11974	16	-56.5	-54.1	-59.0	16	-62.6
	150	14	13906	14004	13757	14	-60.1	-57.4	-69.0	2	-64.0
	100	11	16323	16444	16187	11	-73.0	-69.1	-77.0	—	—
	70	2	18427	18482	18372	2	-69.0	-68.6	-69.4	—	—
	60	—	—	—	—	—	—	—	—	—	—
	50	—	—	—	—	—	—	—	—	—	—
	40	—	—	—	—	—	—	—	—	—	—
	30	—	—	—	—	—	—	—	—	—	—
	20	—	—	—	—	—	—	—	—	—	—
	10	—	—	—	—	—	—	—	—	—	—

N = The number of case the element has been observed during the month.

* The atmospheric pressure corrected to the elevation of the radiosonde station.

UPPER AIR CLIMATOLOGICAL DATA

Table B1 (contd).—MONTHLY MEANS AND MONTHLY ABSOLUTE HIGHER & LOWER
VALUES OF ALTITUDE, AIR TEMPERATURE & DEW POINT AT
STANDARD AND SELECTED PRESSURE SURFACES
JANUARY — 1975

Station	Pressure Surface (Millibar)	Altitude of Pressure Surface (gpm)				Temperature (°C)				Dew Point (°C)	
		N	Mean	Highest	Lowest	N	Mean	Highest	Lowest	N	Mean
Marsa Matruh (A) 1200 U.T.	Surface . . .	21	1016	1025	*	21	16.1	18.6	13.8	21	6.8
	1000 . . .	21	165	229	104	21	15.1	17.9	12.1	21	4.4
	850 . . .	21	1509	1575	1458	21	3.3	6.9	— 0.2	19	— 4.7
	700 . . .	21	3067	3162	3007	21	— 3.4	1.0	— 7.8	21	— 21.7
	600 . . .	21	4218	4383	4127	21	— 10.0	— 6.1	— 15.4	20	— 29.7
	500 . . .	21	5648	5778	5505	21	— 19.4	— 16.7	— 25.0	21	— 36.6
	400 . . .	21	7267	7413	7110	21	— 31.6	— 27.1	— 37.8	21	— 46.8
	300 . . .	21	9244	9403	9060	21	— 44.7	— 40.3	— 50.0	21	— 59.5
	250 . . .	21	10448	10604	10225	21	— 50.3	— 44.1	— 59.5	20	— 64.5
	200 . . .	21	11897	12046	11643	21	— 51.8	— 45.6	— 58.5	19	— 66.0
	150 . . .	19	13755	13895	13493	19	— 54.1	— 46.3	— 69.6	17	— 69.0
	100 . . .	15	16343	16455	16250	15	— 59.4	— 50.1	— 64.1	3	— 70.6
	70 . . .	14	18548	18749	18460	14	— 61.6	— 49.1	— 67.3	—	—
	60 . . .	10	19520	19720	19470	10	— 62.2	— 60.0	— 65.1	—	—
	50 . . .	10	20624	21067	20389	10	— 60.5	— 57.1	— 62.9	—	—
	40 . . .	5	22168	22540	21970	5	— 57.9	— 55.1	— 60.0	—	—
	30 . . .	4	23976	24267	23797	4	— 55.3	— 51.9	— 57.5	—	—
	20 . . .	2	26538	26672	26443	2	— 51.8	— 47.6	— 56.1	—	—
	10 . . .	—	—	—	—	—	—	—	—	—	—
Helwan 1200 U.T.	Surface . . .	31	1002 m.b.	1010 * m.b.	955m.b.	31	16.5	19.7	11.8	31	3.3
	1000 . . .	21	156	222	998	16	16.1	19.7	11.7	16	4.2
	850 . . .	21	1500	1555	1455	21	3.5	8.0	— 0.6	21	— 1.6
	700 . . .	21	3058	3130	3024	21	— 2.7	3.1	— 8.0	21	— 19.1
	600 . . .	21	4266	4347	4201	21	— 9.6	— 5.0	— 15.5	21	— 26.6
	500 . . .	21	5649	5739	5548	21	— 18.9	— 12.5	— 26.9	21	— 35.0
	400 . . .	21	7273	7388	7122	21	— 30.5	— 25.7	— 34.5	21	— 46.3
	300 . . .	21	9265	9413	9065	21	— 42.5	— 37.6	— 47.5	21	— 56.7
	250 . . .	21	10479	10645	10295	21	— 48.6	— 42.6	— 53.7	21	— 61.8
	200 . . .	21	11934	12110	11789	21	— 51.9	— 46.5	— 57.1	21	— 64.8
	150 . . .	21	13787	13950	13668	21	— 55.0	— 48.8	— 58.8	20	— 66.9
	100 . . .	21	16344	16509	16224	21	— 60.4	— 54.2	— 65.7	5	— 69.0
	70 . . .	19	18549	18789	18388	19	— 61.9	— 54.5	— 68.1	—	—
	60 . . .	16	19527	19780	19300	16	— 60.7	— 54.0	— 68.1	—	—
	50 . . .	16	20651	20947	20419	16	— 58.7	— 51.2	— 65.6	—	—
	40 . . .	12	22158	22480	21950	12	— 55.7	— 48.1	— 61.8	—	—
	30 . . .	12	23907	24307	23605	12	— 52.6	— 40.8	— 58.4	—	—
	20 . . .	8	26454	27034	26162	8	— 51.4	— 36.9	— 58.9	—	—
	10 . . .	4	30866	30870	30668	4	— 45.5	— 44.4	— 47.6	—	—
Aswan (A) 1200 U.T.	Surface . . .	23	995m.b.	1000m.b.	990m.b.	23	20.2	23.0	18.0	23	3.4
	1000 . . .	23	152	193	072	2	18.8	19.6	18.0	2	2.8
	850 . . .	23	1518	1559	1458	23	8.6	15.5	4.8	23	— 7.2
	700 . . .	23	3113	3157	3062	23	3.4	7.6	— 0.7	22	— 16.8
	600 . . .	22	4351	4410	4303	22	— 2.6	0.3	— 6.3	22	— 20.7
	500 . . .	22	5773	5842	5710	22	— 11.5	— 6.0	— 14.8	22	— 26.0
	400 . . .	22	7451	7537	7370	22	— 21.8	— 17.3	— 24.7	22	— 35.8
	300 . . .	22	9506	9625	9410	22	— 37.6	— 34.0	— 42.3	22	— 49.7
	250 . . .	22	10745	10890	10648	22	— 41.9	— 41.0	— 50.6	22	— 57.7
	200 . . .	21	12199	12311	12093	21	— 54.6	— 47.8	— 57.2	21	— 65.4
	150 . . .	19	14016	14145	13882	19	— 62.3	— 51.9	— 67.7	2	— 65.8
	100 . . .	14	16484	16689	16317	14	— 69.6	— 60.4	— 76.8	—	—
	70 . . .	5	18603	18889	18441	5	— 68.1	— 63.7	— 71.2	—	—
	60 . . .	2	19550	19600	19500	2	— 70.4	— 68.2	— 72.5	—	—
	50 . . .	2	20632	20671	20592	2	— 61.6	— 60.0	— 63.2	—	—
	40 . . .	1	22004	—	—	1	— 56.8	—	—	—	—
	30 . . .	—	—	—	—	—	—	—	—	—	—
	20 . . .	—	—	—	—	—	—	—	—	—	—
	10 . . .	—	—	—	—	—	—	—	—	—	—

* The number of cases the element has been observed during the month.

**TABLE B 2.—MEAN AND EXTREME VALUES OF THE FREEZING LEVEL AND THE TROPOPAUSE :
THE HIGHEST WIND SPEED IN THE UPPER AIR**

January— 1975

Station	Freezing Level								First Tropopause								Highest wind speed			
	Mean			Highest			Lowest		Mean			Highest			Lowest		Altitude (gpm)	Pressure (mb.)	Direction (000 – 360°)	Speed in Knots
	Altitude (gpm)	Pressure (mb.)	Dew Point (°C)	Altitude (gpm)	Pressure (mb.)	Dew Point (°C)	Altitude (gpm)	Pressure (mb.)	Dew Point (°C)	Altitude (gpm)	Pressure (mb.)	Temperature (°C)	Altitude (gpm)	Pressure (mb.)	Temperature (°C)	Altitude (gpm)	Pressure (mb.)	Temperature (°C)		
0000 U.T.	(N)	(N)	(N)						(N)	(N)	(N)									
	M. Matruh . .	1813 (18)	820 (18)	— 4,9 (18)	3050	710	—23,5	1420	861	6.0	11786 (17)	228 (17)	—54,8 (17)	18790	68	—66,2	8030	352	—45,7	8590 — 210 127
	Helwan . .	2073 (20)	794 (20)	— 9,1 (20)	3370	675	—26,0	1420	856	—3,3	11502 (20)	222 (20)	—56,0 (20)	17160	87	—73,5	7900	360	—42,9	10615 — 255 180
	Aswan . .	3359 (20)	675 (20)	—14,2 (20)	4200	614	—15,8	2220	780	—8,2	15450 (2)	110 (2)	—73,4 (2)	16900	91	—78,1	14050	148	—68,7	12700 183 249 170
	(N)	(N)	(N)						(N)	(N)	(N)									
	M. Matruh . .	2155 (20)	786 (20)	—12,2 (19)	3690	736	—19,1	1534	850	—4,7	10852 (19)	238 (19)	—53,5 (19)	14370	137	—60,0	8040	352	—44,7	10750 237 270 122
1800 U.T.	Helwan . .	2223 (21)	780 (21)	—8,4 (21)	3710	648	—20,3	1600	840	—0,0	13693 (20)	230 (20)	—53,1 (20)	14600	133	—60,0	7440	383	—41,6	10913 — 255 168
	Aswan . .	3717 (22)	651 (22)	—19,4 (22)	4800	586	—25,0	2900	715	—195	15760 (5)	113 (5)	—72,1 (5)	16850	94	—69,0	14130	144	—75,4	10675 251 280 160

— The number of cases the element has been observed during the month.

Table B 3.—NUMBER OF OCCURRENCES OF WIND DIRECTION WITHIN SPECIFIED RANGES AND THE MEAN SCALAR WIND SPEED AT THE STANDARD AND SELECTED PRESSURE SURFACES
 MERSA MATRUH (A) — JANUARY 1975

Time	Pressure Surface (Millibar.)	Wind between ranges of direction (000—360°)														Number of Calm winds	Total Number of Observations (T.N.)	Mean Scalar speed wind (Knots)										
		345		015		045		075		105		135		165		195		225		255		285						
		014	(ft)	044	(ft)	074	(ft)	104	(ft)	134	(ft)	164	(ft)	194	(ft)	224	(ft)	254	(ft)	284	(ft)	314	(ft)	344				
0000 T.U.	Surface	1	9	0	—	0	—	1	10	9	—	1	3	1	7	2	10	10	8	2	4	0	—	0	—	0	18	8
	1000	0	—	0	—	1	3	1	13	—	—	0	—	0	—	3	—	5	16	5	13	3	13	1	9	0	16	13
	850	0	—	0	—	0	—	0	—	0	—	2	10	0	—	0	—	1	34	4	16	6	10	3	10	0	16	13
	700	2	11	0	—	0	—	0	—	0	—	1	6	0	—	2	14	3	21	4	14	2	14	1	20	0	15	15
	600	0	—	0	—	0	—	0	—	0	—	0	—	0	—	2	20	5	26	2	16	2	17	4	20	0	15	20
	500	0	—	0	—	0	—	0	—	0	—	0	—	1	15	2	20	5	37	1	30	2	34	4	20	0	13	28
	400	1	6	0	—	0	—	0	—	0	—	0	—	0	—	2	42	3	53	4	38	1	19	2	42	0	13	40
	300	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	4	62	4	35	1	61	0	—	0	9	50
	250	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	2	64	2	59	0	—	0	—	0	4	60
	200	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	2	62	0	—	0	—	0	—	0	2	62
	150	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	100	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	70	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	60	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	50	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	40	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	30	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
1200 T.U.	Surface	5	8	0	—	0	—	0	—	1	5	0	—	0	—	1	25	1	35	4	14	5	8	4	16	0	21	13
	1000	1	7	0	—	0	—	0	—	0	—	1	10	0	—	0	—	0	—	5	20	8	16	4	15	0	19	16
	850	1	28	0	—	0	—	0	—	2	8	0	—	0	—	0	—	4	8	4	19	5	12	3	11	0	19	13
	700	2	26	0	—	1	8	0	—	0	—	0	—	0	—	1	11	3	13	6	13	3	19	3	21	0	19	16
	600	1	25	1	15	0	—	0	—	0	—	0	—	0	—	1	13	4	27	6	17	5	19	1	22	0	19	31
	500	1	16	0	—	0	—	0	—	0	—	0	—	1	47	3	21	3	39	5	30	4	28	2	34	0	19	30
	400	1	30	0	—	0	—	0	—	0	—	0	—	0	—	3	36	7	57	4	33	3	33	1	30	0	19	42
	300	0	—	0	—	0	—	0	—	0	—	0	—	0	—	2	30	7	58	3	42	2	19	1	30	0	15	44
	250	0	—	0	—	0	—	0	—	0	—	0	—	0	—	2	73	4	67	3	48	0	—	0	—	0	9	62
	200	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	3	51	2	62	0	—	0	—	0	5	55
	150	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	2	54	0	—	0	—	0	—	0	2	54
	100	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	36	0	—	0	—	0	—	0	1	36
	70	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	60	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	50	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	40	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	30	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	

N=The number of cases the element has been observed during the month.

TN=The total number of cases the wind has been observed for all directions during the month.

TABLE B 3. —NUMBER OF OCCURRENCES OF WIND DIRECTION WITHIN SPECIFIED RANGES AND THE MEAN SCALAR WIND SPEED AT THE STANDARD AND SELECTED PRESSURE SURFACES.
HELWAN — JANUARY 1975

Station	Pressure Surface (Millibar)	Wind between specified ranges of direction (000—360°)														Number of Calm winds	Total Number of Observations (N)	Mean Scalar Wind Speed (Knots)										
		345 / 014		015 / 044		045 / 074		075 / 104		105 / 134		135 / 164		165 / 194		195 / 224		225 / 254		255 / 284		285 / 314						
		N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m					
0000 U.T.	Surface	0	—	6	9	2	11	4	5	2	4	5	5	1	6	0	—	1	3	0	—	6	3	4	31	5		
	1000	3	6	3	13	3	15	2	3	0	—	1	10	1	4	0	—	1	6	1	5	0	—	0	18	8		
	850	5	17	4	15	3	8	0	—	0	—	0	—	0	—	0	—	1	21	3	24	2	15	2	0	20		
	700	6	20	0	—	2	17	0	—	0	—	0	—	0	—	0	—	1	34	5	21	3	11	3	18	0		
	600	2	20	1	31	1	20	0	—	0	—	0	—	0	—	1	19	1	44	2	45	9	17	3	28	0		
	500	1	18	0	—	0	—	1	25	0	—	0	—	0	—	0	—	1	13	4	54	8	40	5	28	0		
	400	0	—	0	—	0	—	1	32	0	—	0	—	0	—	0	—	3	56	10	58	4	41	0	18	52		
	300	0	—	0	—	0	—	1	33	0	—	0	—	0	—	0	—	4	74	9	69	1	70	0	15	67		
	250	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	2	45	8	86	2	8	0	12	72		
	200	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	2	95	7	92	0	—	0	9	92		
	150	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	6	74	0	—	0	6	74		
	100	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	62	0	—	0	0	3	62		
	70	0	—	1	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	30	0	—	0	0	1	30	
	60	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	22	0	—	0	0	1	22	
	50	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	27	0	—	0	—	0	0	1	27	
	40	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	21	0	—	0	—	0	0	1	21	
	30	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	18	0	—	0	—	0	0	1	18	
	20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
1200 U.T.	Surface	4	6	5	7	1	11	0	—	0	—	0	—	1	6	6	12	4	7	3	7	1	9	4	10	2	31	08
	1000	2	10	4	11	2	12	0	—	2	12	0	—	0	—	0	—	2	14	0	—	3	5	0	—	16	09	
	850	2	18	4	13	4	10	1	8	2	12	0	—	0	—	1	10	1	16	1	26	3	12	2	21	13		
	700	6	16	2	10	0	—	1	13	0	—	0	—	0	—	0	—	3	16	4	31	2	18	3	17	21		
	600	2	19	0	—	0	—	2	16	0	—	0	—	0	—	0	—	3	22	5	26	4	34	5	24	21		
	500	3	17	3	19	0	—	0	—	0	—	0	—	0	—	0	—	1	47	5	50	5	45	4	30	21		
	400	2	18	1	25	1	17	0	—	0	—	0	—	0	—	0	—	1	64	5	51	7	56	3	42	20		
	300	2	61	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	4	90	7	78	4	50	17		
	250	1	89	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	3	107	8	70	1	50	13		
	200	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	3	82	8	81	0	—	11		
	150	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	2	96	6	100	0	—	8		
	100	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	2	78	1	81	3	79	—		
	70	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	60	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	50	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	40	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	30	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		

N = The number of cases wind has been observed from the range of direction during the month.

TN = The total number of cases the wind has observed during the month.

Table B 3.—NUMBER OF OCCURRENCES OF WIND DIRECTION WITHIN SPECIFIED RANGES AND THE MEAN SCALAR WIND SPEED AT THE STANDARD AND SELECTED PRESSURE SURFACES.
ASWAN — JANUARY 1975

Station	Pressure Surface (Millibar)	Wind between specified ranges of direction (000—360°)												Number of calm winds	Total number of observations (TN)	Mean scalar wind speed (knots)											
		345		015		045		075		105		135		165		195		225		255		285		315			
		014	(ff)	044	(ff)	074	(ff)	104	(ff)	134	(ff)	164	(ff)	194	(ff)	224	(ff)	254	(ff)	284	(ff)	314	(ff)	344			
0000 U.T.	Surface	12	11	3	10	0	—	0	—	0	—	0	—	0	—	0	—	0	—	3	14	4	14	0	22	12	
	1000	0	—	1	10	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	3	12	
	850	6	15	3	14	1	9	2	8	1	7	1	12	0	—	0	—	0	—	1	20	4	16	2	12	0	21
	700	0	—	0	—	1	20	0	—	0	—	0	—	0	—	0	—	4	36	9	22	4	29	2	12	0	20
	600	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	7	41	11	47	0	—	0	—	0	18
	500	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	8	64	10	61	0	—	0	—	0	44
	400	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	9	80	6	71	0	—	0	—	0	62
	300	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	10	93	4	103	1	137	0	—	0	78
	250	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	8	107	6	127	0	—	0	—	0	116
	200	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	3	103	4	109	0	—	0	—	0	109
	150	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	2	64	1	94	0	—	0	—	0	3
	100	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	74
	70	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—
	60	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—
	50	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—
	40	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—
	30	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—
	20	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—
	10	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—
1200 U.T.	Surface	15	11	2	6	0	—	1	10	0	—	0	—	0	—	0	—	0	—	1	13	1	15	3	11	0	23
	1000	2	11	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	2	11
	850	3	8	3	13	2	10	1	12	0	—	0	—	0	—	2	12	0	—	1	4	5	10	6	15	0	23
	700	1	22	1	7	0	—	0	—	0	—	0	—	3	16	4	30	8	22	3	17	2	31	0	22		
	600	0	—	0	—	0	—	0	—	0	—	0	—	0	—	8	39	9	45	5	33	0	—	0	22		
	500	0	—	0	—	0	—	0	—	0	—	0	—	0	—	8	57	13	56	1	80	0	—	0	22		
	400	0	—	0	—	0	—	0	—	0	—	0	—	0	—	14	77	7	80	0	—	0	—	0	57		
	300	0	—	0	—	0	—	0	—	0	—	0	—	0	—	10	93	11	108	0	—	0	—	0	21		
	250	0	—	0	—	0	—	0	—	0	—	0	—	0	—	11	114	8	119	0	—	0	—	0	19		
	200	0	—	0	—	0	—	0	—	0	—	0	—	0	—	5	94	8	114	0	—	0	—	0	13		
	150	0	—	0	—	0	—	0	—	0	—	0	—	1	50	3	75	0	—	1	53	0	—	0	4		
	100	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	53	0	—	0	1		
	70	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	60	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	50	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	40	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	30	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	

N = The number of cases the wind has been observed from the range of direction during the month.

TN = The total number of cases the wind has been observed for all directions during the month.

REVIEW OF AGRO METEOROLOGICAL STATIONS

MERSA MATRUH — JANUARY 1975

The mean daily air temperature and relative humidity were rather normal. The total monthly rainfall was 60.7 mm. which is appreciably above normal (+29 mm.).

The prevailing weather was cold. Maximum air temperatures were below normal the whole month except on the 29th. The lowest maximum temperature was 13.8° C (on the 10th). Minimum air temperature were below nomal most days of the month ; and its lowest value was 6.3° C (on the 2nd).

The highest maximum soil temperatures were lower than the coriesponding values of last January at all depths except at 100 cm. where it was higher by 0.3°C ; the departures varied between 0.3 C (at 2 cm.) and 1.4° C (at 20 cm.). The lowest minimum soil temperatures were higher than last January at all depths except at 100 cm. where it was lower by 1.3° c ; the departures ranged between 3.5° C (at 5 cm.) and 1.2° C (at 50 cm.).

The mean daily actual sunshine duration was lower than normal by 0.4 hour. The mean daily wind speed at 1.5 met. height was lower by 0.9 met./sec. than the corresponding value of January 1974.

TAHRIR — January 1975

The mean daily air tempearture for this month was below average and the mean daily relative humidity was above average. The total monthly rainfall was 4.4 mm. against 8.2 mm. for average.

The month was characterized by four moderate cold wvaes, and maximum air temperatures persisted below average the whole month apart from light warm spells on the 1st, 6th, 21st and 30th. The lowest maximum air teperature for the month was 17.2° C reported on the 11th. Minimum air temperatures were also below average the whole month apart from the 10the 30th and 31st. Minimum air temperature at 5 cm. above the grass field fell below 0°C on the 7th when it dropped to — 0.4° C

The higest maximum soil temperatures were lower than average at all depths with departures between 3.9° C (at 2 cm.) and 0.2° C (at 100 cm.). The lowest minimum soil temperatures were higher than average at 2 & 5 cm. by 2.0° C & 0.5° respectively ; lower at 10 & 20 cm. by 0.8 C & 0.7 C; and the same as average at 50 & 100 cm.

The mean daily actual sunshine duration, wind speed at 1.5 met. height and pan evaporation were slightly lower than average.

BAHTIM — JANUARY 1975

The mean daily air temperature for this month was below average and the mean daily relative humidity was nearly the same as average. The total montly rainfall was only 1.9 mm against 6.8 mm. for average.

The prevailing weather during this month was generally cold. Maximum air temperatures were below average the whole month except on the 1st & 30th and the lowest maximum was 16.0°C (on the 11th). It is worthy of mention that minimum air temperature at 5 cm. height fell below 0°C during 8 days in the dry field and during 13 days in the grass field. These minima and their dates of

occurrence are given in the following :

Date	1	13	14	15	18	20	22	29
Min. air temerature at 5 cm.	—0.5	—2.8	—0.6	—1.6	—2.3	—1.8	—2.0	—1.5
above dry field								
Date	1	8	12	13	14	15	18	
Min. air temperature at 5 cm. above grass field	—1.2	—0.8	—0.9	—3.4	—1.8	—2.3	—2.6	
Date			20	22	23	26	27	29
Min air temperature at 5 cm. above grass field		—3.0	—2.3	—0.8	—0.4	—0.8	—2.4	

The highest maximum soil temperatures were higher than average at 5, 50, 100 cm. depths and lower at 2, 10, 20 cm. All the departures were slight and ranged between 0.2° and 0.5° C. The lowest minimum soil temperatures were higher than average at all depths except at 5 cm. where the value was lower ; the departure ranged between 1.5° C (at 2 cm.) and 0.4° C (at 100 cm.)

The mean daily actual sunshine duration was 0.6 hour higher than average. The mean daily wind speed at 1.5 met. height and pan evaporation were slightly higher than average.

KHARGA — JANUARY 1975

The mean daily air temperature for this month was below normal, while the mean daily relative humidity was above normal.

The prevailing weather during this month was generally cold. Maximum air temperatures were below normal the whole month except on the 31st, and the lowest maximum was 17.1°C (on the 26th). It is worthy of mention that minimum air tmeperature at 5 cm. above soil fell below 0°C on the 4th, 8th, 9th, 10th, 15th & 29th when it dropped to —0.8° C, —0.8° C, —0.3° C, —2.0°, —0.6°C & —0.7° C respectively.

The highest maximum soil temperatures were higher than average at 2, 5, 10 cm depths with departures between 3.9° C (at 2 cm.) and 1.6°C (at 10 cm.), lower at 20, 50 cm by 0.8 and 0.7° C ; and the same as average at 100 cm. The lowest minimum soil temperatures were lower than average at all depths except at 2 cm. where the value was higher by 0.2° C ; the departures varied between 1.9° C (at 10 cm.) and 0.2° C (at 50 cm.).

The mean daily actual sunshine duration was 0.8 hour lower than average. The mean daily wind speed at 1.5 met. height and pan evaporation were slightly lower than average.

**Table C 1.—AIR TEMPERATURE AT $1\frac{1}{2}$ METRES ABOVE GROUND
JANUARY — 1975**

STATION	Air Temperature ($^{\circ}\text{C}$)					Mean Duration in hours of daily air temperature above the following values										
	Mean Max.	Mean Min.	Mean of the day	Night time mean	Day time mean	-5°C	0°C	5°C	10°C	15°C	20°C	25°C	30°C	35°C	40°C	45°C
Mersa Matruh . . .	16.9	8.6	12.5	10.9	14.0	24.0	24.0	24.0	17.8	5.5	0.0	0.0	0.0	0.0	0.0	0.0
Tahrir	19.8	5.6	11.8	9.0	14.6	24.0	24.0	23.0	14.1	6.5	0.4	0.0	0.0	0.0	0.0	0.0
Bahtim	18.3	5.2	11.4	8.7	14.1	24.0	24.0	21.9	14.1	6.0	0.2	0.0	0.0	0.0	0.0	0.0
Kharga	20.0	4.8	12.6	9.7	15.5	24.0	24.0	22.8	16.0	8.4	1.2	0.0	0.0	0.0	0.0	0.0

**Table C 2.—EXTREME VALUES OF AIR TEMPERATURE AT $1\frac{1}{2}$ METRES ABOVE GROUND,
ABSOLUTE MINIMUM AIR TEMPERATURE AT 5 cms ABOVE GROUND OVER
DIFFERENT FIELDS.**

JANUARY — 1975

STATION	Max. Temp. at $1\frac{1}{2}$ metres ($^{\circ}\text{C}$)				Min. Temp. at $1\frac{1}{2}$ metres ($^{\circ}\text{C}$)				Min. Temp. at 5 cms. above			
	Highest		Lowest		Highest		Lowest		Dry soil		Grass	
	Value	Date	Value	Date	Value	Date	Value	Date	Value	Date	Value	Date
Mersa Matruh . . .	20.0	29	13.8	10	11.7	30	6.3	2	4.2	2	—	—
Tahrir	22.6	1	17.2	11	11.0	31	2.9	15	1.3	15	— 0.4	7
Bahtim	21.4	1	16.0	11	9.8	31	0.8	20	—2.8	13	— 3.4	13
Kharga	24.0	31	17.1	26	10.0	26	0.0	10	—2.0	10	—	—

Table C 3.—(SOLAR+SKY) RADIATION, DURATION OF BRIGHT SUNSHINE, RELATIVE HUMIDITY, VAPOUR PRESSURE AT $1\frac{1}{2}$ METRES ABOVE GROUND, EVAPORATION & RAINFALL

JANUARY — 1975

STATION	(Solar+Sky) Radiation $\text{gm} \cdot \text{cal/cm}^2$	Duration of Bright Sunshine (hours)			Relative Humidity				Vapour pressure (mmes)				Evaporation (mmes)		Rainfall (mmes)				
		Total monthly	Actual monthly	Total Possible monthly	Mean of day	1200 U.T.	Lowest	Date	Mean of day	1200 U.T.	Highest	Date	Lowest	Date	Piche	Pan class (A)	Total Amount Monthly	Max. Fall in one day	Date
					%														
M.Matruh	221.2	196.6	320.4	61	64	52	27	14	6.9	7.1	10.5	30	4.1	9.14	4.0	—	60.7	35.1	15
Tahrir . . .	295.9	211.1	322.7	65	76	59	35	30	7.8	8.8	10.9	24	4.5	31	3.7	3.22	4.4	3.5	16
Bahtim . . .	300.9	230.2	324.0	71	68	46	27	30	6.7	6.8	9.4	21,24	3.8	3	4.0	3.64	1.9	0.9	16
Kharga . . .	378.5	275.1	333.9	82	52	34	18	31	5.5	5.5	7.6	26	3.2	3.30	4.9	5.41	0.0	0.0	—

**TABLE C 4.—EXTREME SOIL TEMPERATURE AT DIFFERENT DEPTHS(cms.)
IN DIFFERENT FIELDS**

JANUARY—1975

STATION	(H) Highest Lowest	Extreme soil temperature (°C) in dry field at different depths (cms.)								Extreme soil temperature (°C) in grass field at different depths (cms.)								
		2	5	10	20	50	100	200	300	2	5	10	20	50	100	200	300	
Mersa Matruh .	H	19.8	19.0	17.2	14.8	16.4	18.5	21.6	—	16.9	15.7	15.7	14.8	14.4	15.9	18.4	—	
	L	6.3	7.0	8.8	11.0	13.2	13.0	19.0	—		7.7	8.6	9.4	10.8	12.7	14.7	16.9	—
Tahrir	H	23.0	20.7	19.6	17.4	16.3	18.0	20.8	22.9	16.6	14.7	14.4	13.4	15.1	17.1	20.6	—	
	L	6.5	6.5	6.8	9.8	13.5	16.4	19.1	21.5		5.6	6.6	9.6	11.3	14.0	16.0	19.0	—
Bahtim	H	28.6	22.4	19.3	17.7	19.6	21.6	24.8	25.8	16.6	14.7	14.4	13.4	15.1	17.1	20.6	—	
	L	4.7	5.4	11.4	15.1	18.3	20.1	23.2	24.7		5.6	6.6	9.6	11.3	14.0	16.0	19.0	—
Kharga. . . .	H	35.5	30.2	24.9	20.2	21.0	23.9	27.3	29.0	—	—	—	—	—	—	—	—	—
	L	4.1	5.6	9.3	14.2	19.3	22.0	25.4	27.7	—	—	—	—	—	—	—	—	—

TABLE C 5.—SURFACE WIND

JANUARY — 1975

STATION	Wind Speed m/sec (1½ metres)			Days with surface wind speed at 10 metres.								Max. Gust (knots at 10 metres)	
	Mean of the day	Night time mean	Day time mean	≥ 10 knots	≥ 15 knots	≥ 20 knots	≥ 25 knots	≥ 30 knots	≥ 35 knots	≥ 40 knots	value (knots)	Date	
Mersa Matruh	3.6	3.0	4.2	26	17	12	11	4	2	0	40		31
Tahrir . . .	2.0	1.3	2.7	29	16	8	3	0	0	0	35		30
Bahtim . . .	2.3	1.7	2.9	27	13	6	0	0	0	0	28		31
Kharga . . .	2.3	1.4	3.2	26	12	3	0	0	0	0	30		23

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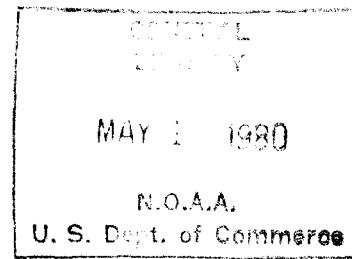
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THE EGYPTIAN METEOROLOGICAL AUTHORITY
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PUBLICATIONS OF THE METEOROLOGICAL AUTHORITY OF THE ARAB REPUBLIC OF EGYPT—CAIRO

In fulfilment of its duties, the Egyptian Meteorological Authority issues several reports and publications on weather, climate and agro-meteorology. The principal publications are described on this page.

Orders for publications should be addressed to :

"Chairman of the Board of Directors, Meteorological Authority, Kubri-el-Qubbeh — CAIRO".

THE MONTHLY WEATHER REPORT

First issued in 1909, the Monthly Weather Report served to give a brief summary of the weather conditions that prevailed over Egypt during the month, with a table showing the mean values for few meteorological elements and their deviations from the normal values. From 1954 to 1957 this report was in a rapid state of development and extension resulting into a voluminous report on January 1958 giving surface, upper air, and agro-meteorological data for Egypt.

As from January 1964, the Monthly Weather Report was pressed to give climatological data for a representative selection of synoptic stations.

THE AGRO-METEOROLOGICAL ABRIDGED MONTHLY REPORT

Gives a review of weather experienced in the agro-meteorological stations of Egypt as well as monthly values of certain elements.

THE ANNUAL REPORT

This report gives annual values and statistics for the various meteorological elements, together with a summary of the weather conditions that prevailed during all months of the year.

CLIMATOLOGICAL NORMALS FOR EGYPT

A voluminous edition was issued in March 1968 which brings normals and mean values up till 1960.

METEOROLOGICAL RESEARCH BULLETIN

First issued in January 1969 on a bi-annual basis. It includes research works carried out by members of staff of "The Meteorological Institute for Research and Training" and the Operational Divisions of the Meteorological Authority.

TECHNICAL NOTES

As from October 1970, the Meteorological Authority started to issue a new series of publications in the form of Technical Notes (non periodical) on subjects related to studies and applications of meteorology in different fields for the benefit of personnel working in these fields.

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Note For explanatory notes on the tables please refer to Volume 18, Number 1 (January 1975).

General Summary of Weather Conditions

FEBRUARY 1975

Cold winter weather intervened by a warm spell during the third week. Abnormal rainfall over Upper Egypt on the 19th and 20th causing local floods.

PRESSURE DISTRIBUTION

In north five depressions passed through the East Mediterranean on the 1st, 9th, 14th, 20th and 26th. The fourth one was accompanied by a marked northward elongation of the Sudan trough. This distribution yielded pronounced instability causing abnormal rain over Egypt and local floods over Upper Egypt.

In the rear of these depressions, high pressure established over East Mediterranean and NE Africa.

SURFACE WIND

The prevailing winds were generally light to moderate : SW to NW in north of the country and N to NW in south. Winds were fresh to strong during several days in few-scattered localities.

TEMPERATURE

Apart from a warm spell which prevailed most of the third week, maximum air temperatures experienced moderate departures below normal in general.

The highest and lowest maximum air temperatures reported were respectively 36.4°C at Aswan on the 19th & 11.4°C at Damietta on the 10th.

Minimum air temperatures experienced irregular slight to moderate departures below and above normal.

The highest and lowest minimum air temperatures reported were respectively : 22.3°C at Aswan on the 20th and -0.4°C at Bahtim on both the 12th and 13th.

Cairo, January 1977

PRECIPITATION

Light to moderate rain fell during several days over scattered places where the monthly rainfall amounts were above normal in general.

Rain was heavy on the 19th & 20th over some places in Upper Egypt and the Eastern Desert, causing local floods in Beni Suef, Minya, Asuit and Suhag Provinces.

Rainfall records were attained at the following stations :

Station	Monthly Record	Daily Record
Minya	19.2 mm.	11.4 mm.
Asuit	5.0	—
Luxor	3.6	3.6
Hurghada	11.0	11.0

The maximum monthly rainfall reported was 50.5 mm. at Balteam.

The maximum daily rainfall reported was 20.5 mm. at Damietta on the 1st.

OTHER WEATHER PHENOMENA

Early morning mist developed during several days in scattered places in Delta and Cairo.

Rising sand was reported during few days in scattered places.

Chairman (A. F. Hasan)

Board of Directors

SURFACE DATA

**Table A 1.— MEAN VALUES OF THE ATMOSPHERIC PRESSURE, AIR TEMPERATURE,
RELATIVE HUMIDITY, BRIGHT SUNSHINE DURATION & PICHE EVAPORATION
FEBRUARY — 1975**

STATION	Atmospheric Pressure (mbs) M.S.L		Air Temperature °C								Relative Humidity %		Bright Sunshine Duration (Hours)			Picke Evaporation mms. Mean	
	Mean	D.F. Normal or Average	Maximum		Minimum		A+B — 2	Dry Bulb		Wet Bulb		Mean	D.F. Normal or Average	Total Actual	Total Possible	%	
			(A) Mean	D.F. Normal or Average	(B) Mean	D.F. Normal or Average		Mean	D.F. Normal or Average	Mean	D.F. Normal or Average						
Sallum	1017.2	-0.1	17.9	-2.0	9.6	-0.4	13.8	13.1	-1.2	10.5	-0.1	72	+18	—	—	4.9	
Mersa Matruh (A)	1016.7	-0.5	17.3	-1.6	4.7	+0.2	13.0	12.7	-0.7	10.1	-0.2	73	+9	202.2	309.1	65	
Alexandria (A)	1016.8	-0.5	18.7	-0.6	8.5	-0.9	13.6	13.3	-0.9	10.5	-0.6	70	+3	206.8	309.9	67	
Port Said (A)	1015.6	-1.4	19.3	+0.6	11.1	-0.9	15.2	14.4	-0.4	11.1	-0.6	68	-1	211.7	309.9	68	
El Arish	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Ghazza	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Tanta	1016.2	-1.4	19.9	-1.0	6.4	-0.3	13.2	12.4	-0.7	9.9	-0.2	74	+8	219.8	310.7	71	
Cairo (A)	1016.7	-0.8	20.4	-0.2	10.0	+0.6	15.2	14.8	-0.1	10.4	-0.1	56	+2	—	—	9.0	
Iayoum	—	—	21.6	-0.6	6.0	-1.4	13.8	13.7	-1.0	10.1	-0.1	64	+11	—	—	3.8	
Minya (A)	1017.6	-0.1	21.7	-0.8	5.4	+0.2	13.6	13.4	0.0	9.4	+0.4	61	+8	240.6	313.5	77	
Asyout (A)	1018.8	-1.6	21.1	-1.6	7.0	-0.1	14.0	14.0	-1.1	8.8	-0.5	49	+8	—	—	7.1	
Luxor (A)	1015.9	-0.2	24.9	-0.5	6.9	0.0	15.9	15.6	-0.4	10.2	+0.1	50	+8	—	—	5.0	
Aswan (A)	1015.7	-0.1	25.2	-0.9	9.9	+0.5	17.6	17.4	-0.3	10.0	+0.6	34	+9	—	—	11.4	
Siwa	1017.2	-0.5	20.6	-1.2	7.2	+1.3	13.9	13.8	-0.3	9.2	+0.4	54	+9	257.4	312.2	82	
Bahariya	1017.0	-1.2	21.5	-0.8	6.4	0.0	14.0	14.0	-0.2	8.5	-0.3	36	+2	—	—	0	
Farafra	1018.3	-1.2	22.5	-0.2	6.6	+1.3	14.6	14.1	+0.3	8.7	+1.2	46	+6	—	—	8	
Dakhla	1017.4	-0.8	23.8	0.0	5.3	-0.3	14.6	14.1	+0.3	8.2	0.0	42	+9	—	—	7.6	
Kharga	1016.6	-0.6	24.0	-0.4	7.6	+0.4	15.6	16.0	-0.1	9.2	+0.3	42	+6	261.9	316.2	83	
Tor	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Hurgada	1015.7	0.0	22.3	+0.9	10.9	+0.9	16.6	16.6	0.0	11.8	+0.5	54	+5	265.1	314.8	84	
Quseir	1016.0	0.0	22.3	-0.6	14.9	+0.5	18.6	18.2	-0.3	12.3	-0.3	46	0	—	—	7.0	

Table A 2.—MAXIMUM & MINIMUM AIR TEMPERATURE
FEBRUARY — 1975

Station	Maximum Temperature					Grass Temp.	Min. Temp.	Minimum Temperature °C					No. of Days with Min. Temp.					
	Highest	Date	Lowest	Date	No. of Days with Max. Temp.					Highest	Date	Lowest	Date	<10	<5	<0	<-5	
					>25	>30	>35	>40	>45									
Sallum	23.2	15	12.9	28	0	0	0	0	0	8.3	—	14.6	19	7.5	10-28	19	0	0
Mersa Matruh . . (A)	22.4	16	13.3	10	0	0	0	0	0	6.9	—	14.8	19	4.6	4	22	1	0
Alexandria . . . (A)	23.2	19	14.3	10	0	0	0	0	0	7.2	—	11.1	20	4.8	14	21	1	0
Port Said (A)	25.5	19	12.8	1	0	0	0	0	0	10.8	—	16.2	19	6.2	12	7	0	0
El Arish	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Ghazza	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tanta	29.8	18	13.6	10	2	0	0	0	0	—	—	13.0	19	0.4	12	26	8	0
Cairo (A)	31.6	18	14.9	10	3	1	0	0	0	—	—	18.0	19	5.4	13	15	0	0
Fayoum	31.3	18	15.7	10	2	1	0	0	0	2.9	—	14.8	19	1.1	11	26	8	0
Minya (A)	27.8	18,19	16.4	11	2	0	0	0	0	2.2	—	17.0	19	0.0	12	25	13	0
Assyout (A)	30.5	19	16.5	11	3	1	0	0	0	4.7	—	19.8	19	2.4	12	25	7	0
Luxor (A)	35.0	19	18.8	11	15	1	0	0	0	2.6	—	17.0	19	2.0	12	24	7	0
Aswan (A)	36.4	19	20.4	10	13	4	1	0	0	—	—	22.3	20	4.3	12	16	1	0
Siwa	28.4	18	15.2	28	2	0	0	0	0	6.7	—	14.4	18	2.3	11	25	4	0
Bahariya	32.2	18	16.8	10	4	1	0	0	0	5.9	—	20.0	19	0.7	11	25	10	0
Farafra	32.3	18	17.6	11	7	1	0	0	0	5.5	—	17.7	19	1.4	12	24	11	0
Dakhla	33.2	19	19.0	3	8	1	0	0	0	5.1	—	18.8	19	0.0	16	24	19	0
Kharga	34.8	19	17.9	11	11	2	0	0	0	5.7	—	20.4	19	0.4	12	23	8	0
Tor	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hurghada	27.3	18	17.4	11	3	0	0	0	0	11.6	—	17.6	19	6.8	11	11	0	0
Quseir	26.0	18,19	17.0	11	2	0	0	0	0	—	—	20.0	20	12.1	11	0	0	0

—

TABLE A 3.—SKY COVER AND RAINFALL

FEBRUARY 1975

Station	Mean Sky Cover (Oct)					Rainfall (mm)										
	00 U.T.	06 U.T.	12 U.T.	18 U.T.	Daily Mean	Total Amount	Dev. From Normal	Max. Fall in one day		Number of days with Amount of Rain						
								Amount	Date	<0.1	≥0.1	≥1.0	≥5.0	≥10	≥25	≥50
Sallum	4.2	3.1	4.0	3.6	3.7	12.7	+ 2.4	3.6	20	0	8	4	0	0	0	0
Marsa Matruh (A)	2.8	4.5	4.7	3.3	3.8	15.5	0.0	6.3	28	1	7	3	1	0	0	0
Alexandria (A)	3.0	4.6	5.0	3.4	4.0	30.1	+ 3.0	9.7	19	0	10	7	3	0	0	0
Port Said (A)	2.0	2.7	3.0	2.6	2.6	19.9	+ 8.6	10.8	20	0	6	4	1	1	0	0
El Arish	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Ghazala	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tanta	1.3	2.1	4.1	2.5	2.5	17.4	+ 10.4	4.0	2	0	9	5	0	0	0	0
Cairo (A)	1.8	2.0	4.1	2.9	2.7	6.9	+ 3.0	3.8	20	—	6	2	0	0	0	0
Fayoum	—	1.9	3.2	2.1	—	7.2	+ 5.8	5.2	20	1	2	2	1	0	0	0
Minya (A)	1.5	1.9	2.3	1.3	1.7	19.2	+ 18.1	11.4	19	1	2	2	2	0	0	0
Assyout (A)	0.8	1.3	1.7	1.0	1.1	5.0	+ 4.6	2.5	19,20	0	2	2	0	0	0	0
Luxor (A)	1.0	1.6	1.9	1.5	1.4	3.6	+ 3.5	3.6	21	0	1	1	0	0	0	0
Aswan (A)	0.6	1.4	1.6	0.8	1.2	Tr.	+ Tr.	Tr.	20	1	0	0	0	0	0	0
Siwa	3.0	2.2	3.0	2.1	2.6	3.5	+ 1.2	1.6	20	1	5	1	0	0	0	0
Bahariya	1.1	1.6	2.5	1.3	1.6	Tr.	+ 1.3	Tr.	19,20	2	0	0	0	0	0	0
Farafra	—	1.6	2.0	1.0	—	4.9	+ 4.9	3.2	19	1	2	2	0	0	0	0
Dakhla	0.5	1.0	1.5	0.9	1.0	0.0	+ 0.3	0.0	—	0	0	0	0	0	0	0
Kharga	0.4	1.3	1.8	1.0	1.1	1.0	+ 0.7	1.0	19	1	1	1	0	0	0	0
Tor	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hurghada	1.3	2.0	1.9	1.3	1.6	11.0	+ 11.0	11.0	20	2	1	1	1	0	0	0
Quseir	1.0	2.2	2.1	1.5	1.7	0.3	+ 0.3	0.3	20	1	1	0	0	0	0	0

Table A 4.—DAYS OF OCCURRENCE OF MISCELLANEOUS WEATHER PHENOMENA

FEBRUARY — 1975

Station	Precipitation				Frost	Thunderstorm	Mist Vis At 1000 metres	Fog Vis <1000 Metres	Haze Vis ≥1000 Metres	Thick Haze Vis <1000 Metres	Dust or Sandrising Vis ≥1000 Metres	Dust or Sandstorm Vis <1000 Metres	Gale	Clear Sky	Cloudy Sky	
	Rain	Snow	Ice. Pellets	Hail												
Sallum	8	0	0	0	0	0	0	0	0	0	0	0	0	0	8	4
Mersa Matruh (A)	7	0	0	0	0	0	0	0	0	0	0	0	0	0	7	4
Alexandria (A)	10	0	0	0	0	0	0	0	0	0	0	0	0	0	5	3
Port Said (A)	6	0	0	0	0	0	0	0	0	0	0	0	0	0	13	2
El Arish	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Ghazza	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tanta	9	0	0	0	0	0	0	8	0	1	0	2	0	0	12	1
Cairo (A)	6	0	0	0	0	0	0	0	1	10	0	4	0	0	10	2
Fayoum	2	0	0	0	0	0	0	0	0	0	0	0	0	0	—	—
Minya (A)	2	0	0	0	0	0	0	14	0	10	0	2	0	0	19	3
Assyout (A)	2	0	0	0	0	0	0	3	0	1	0	3	0	0	23	3
Luxor (A)	1	0	0	0	0	0	0	0	0	9	0	5	1	0	21	3
Aswan (A)	0	0	0	0	0	0	0	0	0	3	0	4	1	0	20	0
Siwa	5	0	0	0	0	0	0	0	0	0	0	10	1	0	11	2
Bahariya	0	0	0	0	0	0	0	0	0	0	0	2	0	0	20	2
Farafra	2	0	0	0	0	0	0	0	0	1	0	1	1	0	—	—
Dakhla	0	0	0	0	0	0	0	0	0	0	0	4	0	0	28	1
Kharga	1	0	0	0	0	0	1	0	0	0	0	1	0	0	23	1
Tor	—	—	—	—	—	—	—	0	—	0	0	—	0	—	—	—
Hurghada	1	0	0	0	0	6	0	0	0	0	0	6	0	0	23	3
Quseir	1	0	0	0	0	0	0	0	0	0	0	0	0	0	20	3

Table A 5.—NUMBER IN HOURS OF OCCURRENCES OF CONCURRENT SURFACE WIND SPEED AND DIRECTION RECORDED WITHIN SPECIFIED RANGES
FEBRUARY — 1975

Station	Calm (hours)	Variable (hours)	Unrecorded (hours)	Wind speed in knots	Number in hours of occurrences of wind blowing from the ranges of directions indicated												All directions
					345	015	045	075	105	135	165	195	225	255	285	315	
					014	044	074	104	134	164	194	224	254	284	314	344	
<i>Sallum</i>	14	6	0	1-10	43	31	36	36	40	33	9	2	14	39	108	67	458
				11-27	0	0	9	2	4	5	2	1	3	65	76	27	19 ¹
				28-47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	6	0	0	0	0	0	0
				All speeds	43	31	45	38	44	38	11	3	17	104	184	94	65 ²
<i>Marsa Matruh . . (A)</i>	25	0	2	1-10	17	27	16	29	35	29	22	42	82	27	24	74	42 ⁴
				11-27	1	0	2	23	20	5	8	11	39	25	35	46	21 ⁸
				28-47	0	0	0	0	0	0	0	3	0	0	0	3	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	18	27	18	55	55	34	30	53	121	52	62	120	64 ⁵
<i>Alexandria</i>	0	0	2	1-10	44	13	41	37	34	23	33	33	13	23	34	67	43 ³
				11-27	1	13	16	3	0	0	5	2	35	31	40	49	21 ⁹
				28-47	0	0	0	0	0	0	0	1	2	5	0	0	8
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	45	56	60	40	41	23	41	65	50	59	74	116	67 ⁰
<i>Cairo . . . (A)</i>	98	11	0	1-10	22	50	39	40	10	10	23	70	36	50	30	25	403
				11-27	3	12	16	6	2	4	23	32	38	15	3	1	10 ⁰
				28-47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	25	62	55	46	12	14	49	102	74	65	33	26	563
<i>Fayoum . . (A)</i>	7	9	5	1-10	98	129	36	16	15	17	7	76	94	51	20	21	620
				11-27	0	1	0	0	0	0	1	7	10	9	3	0	31
				28-47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	98	130	36	16	15	17	48	83	104	60	23	21	651
<i>Minya . . . (A)</i>	58	15	0	1-10	135	58	11	6	6	60	41	8	18	45	42	90	498
				11-27	27	13	1	0	0	2	6	1	1	17	15	18	101
				28-47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	162	71	12	4	6	62	47	9	19	62	57	108	599
<i>Asyout . . (A)</i>	86	0	2	1-10	64	23	7	9	9	14	12	9	18	88	109	88	450
				11-27	32	8	1	0	3	13	4	2	5	19	25	28	131
				28-47	0	0	0	0	0	0	0	0	0	2	1	0	3
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	96	31	8	9	12	27	16	11	23	100	135	116	584
<i>Luxor . . (A)</i>	40	0	0	1-10	69	93	35	28	14	16	79	64	50	49	47	40	595
				11-27	1	0	0	4	0	0	0	0	0	6	16	10	37
				28-47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	10	93	35	38	14	16	70	64	50	55	83	50	632

Table A 5 (cont.) - NUMBER IN HOURS OF OCCURENCES OF CONCURRENT SURFACE WIND SPEED AND DIRECTION RECORDED WITHIN SPECIFIED RANGES
FEBRUARY — 1975

Station	Calm (hours)	Variable (hours)	Unrecorded (hours)	Wind speed in knots	Number in hours of occurrences of wind blowing from the ranges of directions indicated													All directions
					345	015	045	075	105	135	165	195	225	255	285	315		
					014	044	074	104	134	164	194	224	254	284	314	344		
<i>Aswan . . (A)</i>	3	1	1	1—10	267	110	11	11	6	2	5	2	3	10	19	72	518	
				11—27	58	34	3	4	7	0	0	1	0	2	9	31	149	
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0	
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0	
				All speeds	325	144	14	15	13	2	5	3	3	12	28	103	667	
<i>Siwa . .</i>	22	5	1	1—10	9	33	29	63	76	30	18	11	22	95	77	54	517	
				11—27	3	8	0	4	33	12	0	0	0	0	9	48	9	126
				28—47	0	0	0	0	0	0	0	0	0	0	1	0	1	
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0	
				All speeds	12	41	29	67	109	42	18	11	22	104	126	63	644	
<i>Dakhla . . .</i>	9	3	0	1—10	49	24	38	31	27	25	34	43	52	58	116	195	602	
				11—27	3	10	3	1	1	3	1	1	2	4	17	12	58	
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0	
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0	
				All speeds	52	34	41	38	28	28	35	44	54	62	133	117	660	
<i>Khartoum . . .</i>	4	0	0	1—10	205	93	34	20	19	14	11	6	6	22	55	86	571	
				11—27	48	18	7	0	0	0	0	0	4	0	11	9	97	
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0	
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0	
				All speeds	253	111	41	20	19	14	11	6	10	22	66	95	668	
<i>Hurghada . . .</i>	2	0	0	1—10	21	24	14	17	15	8	4	16	12	82	147	20	380	
				11—27	57	6	0	0	1	2	0	0	1	18	115	90	290	
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0	
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0	
				All speeds	78	30	14	17	16	10	4	16	13	100	262	110	670	
<i>Quseir . . .</i>	0	0	0	1—10	47	29	11	8	7	3	9	7	39	164	93	27	444	
				11—27	80	7	1	1	0	0	0	0	6	29	47	57	228	
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0	
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0	
				All speeds	127	36	12	9	7	3	9	7	45	193	140	84	612	
<i>Cansel . . .</i>	0	0	3	1—10	47	29	11	8	7	3	9	7	33	161	93	27	441	
				11—27	80	7	1	1	0	0	0	0	6	29	47	57	228	
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0	
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0	
				All speeds	127	36	12	9	7	3	9	7	45	190	140	84	669	

UPPER AIR CLIMATOLOGICAL DATA

Table B 1. (contd.) — MONTHLY MEANS, ABSOLUTE HIGHER AND LOWER VALUES OF ALTITUDE, AIR TEMPERATURE AND DEW POINT AT STANDARD AND SELECTED PRESSURE SURFACES

FEBRUARY — 1975

Station	Pressure Surface (Millibar)	Altitude of Pressure Surface (gpm)				Temperature (°C)				Dew Point (°C)	
		N	Mean	Highest	Lowest	N	Mean	Highest	Lowest	N	Mean
Mersa Matruh 0000 U.T.	Surface	26	1014m.b.	1021m.b.	1008m.b.	26	11.8	16.8	8.0	26	6.7
	1000	26	145	201	95	26	11.5	16.6	7.9	25	5.0
	850	26	1486	1529	1419	25	3.6	14.8	—3.6	25	—6.1
	700	26	3036	3107	2933	26	—5.3	3.8	—13.4	26	—17.3
	600	25	4230	4325	4117	25	—12.3	—5.5	—18.9	25	—25.9
	500	25	5595	5715	5408	25	—21.9	—15.0	—29.0	25	—34.0
	400	24	7194	7360	6997	24	—32.9	—24.9	—36.4	24	—45.7
	300	24	9164	9400	8930	24	—45.7	—36.7	—50.2	24	—57.6
	250	24	10359	10642	10123	24	—50.3	—44.0	—55.5	24	—62.2
	200	24	11806	12104	11582	24	—52.0	—44.0	—57.4	22	—65.3
	150	22	13661	13911	13133	22	—55.6	—48.1	—63.5	15	—67.2
	100	22	16214	16444	15973	22	—61.1	—55.4	—67.7	3	—68.3
	70	19	18419	18715	18159	19	—61.3	—54.9	—66.0	—	—
	60	17	19387	19620	19100	17	—60.6	—54.4	—64.7	—	—
	50	17	20497	20772	20227	17	—59.9	—54.0	—63.3	—	—
	40	12	21978	22480	21680	12	—60.0	—53.6	—68.1	—	—
	30	11	23657	23781	23558	11	—59.5	—57.0	—62.2	—	—
	20	4	26145	26298	25921	4	—60.0	—55.9	—65.0	—	—
	10	—	—	—	—	—	—	—	—	—	—
Helwan 0000 U.T.	Surface	28	1000m.b.	1008m.b.	991m.b.	28	11.4	21.5	6.1	28	4.4
	1000	27	141	204	971	15	10.4	12.6	6.3	15	5.0
	850	27	1490	1577	1445	25	5.1	16.0	—3.5	25	—4.1
	700	27	3054	3144	2987	27	—3.4	03.9	—11.2	27	—16.4
	600	27	4260	4364	4171	26	—10.5	—4.3	—14.9	26	—23.9
	500	27	5639	5773	5524	27	—20.1	—13.1	—26.2	27	—32.2
	400	27	7262	7429	7111	25	—30.5	—22.0	—37.5	26	—42.5
	300	27	9247	9462	9080	27	—44.5	—38.4	—48.7	27	—54.8
	250	27	10454	10683	10252	27	—49.4	—41.5	—54.0	27	—59.8
	200	27	11904	12105	11704	27	—53.8	—48.9	—59.9	27	—63.8
	150	26	13730	13894	13581	26	—59.4	—54.6	—68.8	13	—67.2
	100	25	16240	16404	16067	25	—64.9	—60.0	—70.0	—	—
	70	20	18415	18576	18197	19	—64.0	—58.6	—68.0	—	—
	60	17	19385	19570	19200	17	—62.6	—57.3	—67.6	—	—
	50	17	20483	20698	20237	17	—61.1	—58.1	—64.3	—	—
	40	16	21952	22160	21700	16	—60.6	—56.1	—62.9	—	—
	30	16	23659	23880	23387	16	—60.0	—55.2	—63.9	—	—
	20	9	26221	26439	25931	9	—56.3	—52.4	—59.6	—	—
	10	2	30720	30814	30625	2	—51.2	—48.9	—53.6	—	—
Aswan 0000 U.T.	Surface	28	993m.b.	999m.b.	983m.b.	28	13.1	25.0	6.2	28	—0.5
	1000	28	139	185	63	—	—	—	—	—	—
	850	28	1507	1535	1479	28	10.3	21.1	3.2	28	—5.6
	700	27	3105	3152	3053	27	4.2	12.1	0.6	27	—15.4
	600	27	4342	4403	4276	27	—3.7	—0.8	8.6	27	—19.9
	500	27	5757	5829	5672	26	—13.3	—10.7	—17.7	26	—27.2
	400	27	7420	7506	7302	27	—24.8	—18.9	—28.5	27	—36.1
	300	26	9459	9568	9303	26	—36.0	—31.6	—42.7	26	—46.0
	250	25	10693	10800	10515	25	—45.2	—36.0	—50.7	23	—54.9
	200	23	12157	12246	12015	23	—52.4	—46.6	—57.7	18	—63.6
	150	17	13961	14117	13781	17	—64.7	—56.0	—71.4	1	—68.2
	100	8	16434	16652	16315	8	—71.8	—66.0	—75.6	—	—
	70	2	18584	18703	18404	2	—73.6	—72.3	—75.0	—	—
	60	1	19720	—	—	1	—73.2	—	—	—	—
	50	1	20755	—	—	1	—70.0	—	—	—	—
	40	—	—	—	—	—	—	—	—	—	—
	30	—	—	—	—	—	—	—	—	—	—
	20	—	—	—	—	—	—	—	—	—	—
	10	—	—	—	—	—	—	—	—	—	—

* The atmospheric pressure corrected to the elevation of the radiosonde station.

N = The number of times the element has been observed during the month.

UPPER AIR CLIMATOLOGICAL DATA

Table B 1.(cont.l.)—MONTHLY MEANS AND MONTHLY ABSOLUTE HIGHER & LOWER
VALUES OF ALTITUDE, AIR TEMPERATURE & DEW POINT AT
STANDARD AND SELECTED PRESSURE SURFACES

FEBRUARY — 1975

Station	Pressure Surface (Millibar)	Altitude of Pressure Surface (gpm)				Temperature (°C)				Dew point (°C)	
		N	Mean	Highest	Lowest	N	Mean	Highest	Lowest	N	Mean
Mersa Matruh (A) 1200 UT	Surface	27	1014m.b.	1022m.b.	1008m.b.	27	16.1	21.6	12.4	27	7.2
	1000	27	112	212	95	27	15.0	19.0	8.0	27	5.3
	850	27	1492	1570	1470	27	—	18.0	3.4	26	— 5.1
	700	27	3090	3121	3080	27	—	3.0	3.8	26	—16.9
	600	26	4254	4339	4140	26	—10.8	—2.2	—21.8	25	—26.2
	500	25	5627	5731	556	25	—20.9	—14.0	—30.3	23	—35.2
	400	23	7240	7360	7012	23	—32.6	—23.0	—39.5	20	—45.0
	300	17	9239	9379	9076	17	—45.9	—39.8	—52.0	17	—57.4
	250	17	10138	10596	10234	17	—50.3	—16.9	—53.0	17	—61.3
	200	17	11887	12041	11701	17	—53.0	—48.7	—59.3	17	—64.5
	150	17	13732	13894	13562	17	—56.3	—51.8	—63.4	13	—65.3
	100	17	16282	16494	16391	17	—60.0	—54.7	—67.2	3	—64.4
	70	15	18495	18764	18300	15	—69.2	—52.5	—64.9	—	—
	60	14	19509	19890	19300	14	—58.3	—50.5	—64.5	—	—
	50	13	20786	20958	20390	13	—57.0	—47.6	—64.1	—	—
	40	5	22118	22500	21900	5	—54.7	—41.1	—61.0	—	—
	30	4	23945	24388	23720	4	—51.5	—40.1	—57.0	—	—
	20	—	—	—	—	—	—	—	—	—	—
	10	—	—	—	—	—	—	—	—	—	—
Helwan 1200 UT	Surface	28	999m.b.	1006m.b.	990m.b.	28	18.8	26.4	13.0	28	2.9
	1000	26	171	203	157	9	17.1	21.5	12.4	9	2.3
	850	26	1497	1537	1419	26	6.5	18.8	—0.6	26	—3.4
	700	26	3066	3155	2908	26	—02.5	07.3	—9.9	26	—14.5
	600	26	4276	4410	4167	26	—9.2	—4.1	—15.5	26	—23.6
	500	26	5662	5843	5502	26	—17.8	—10.7	—22.5	26	—32.0
	400	26	7301	7525	7164	26	—29.2	—22.6	—33.1	26	—40.1
	300	26	9303	9586	9172	26	—42.3	—35.8	—48.0	26	—53.7
	250	26	10522	10835	10371	26	—57.7	—41.4	—53.9	26	—58.7
	200	26	11983	12332	11823	26	—9.2	—4.5.7	—58.4	26	—59.4
	150	26	13841	14170	13682	26	—75.9	—47.1	—62.1	22	—64.9
	100	25	16398	16694	16245	25	—60.8	—52.7	—69.2	6	—67.9
	70	22	18633	18974	18407	22	—55.3	—51.7	—64.0	—	—
	60	21	19641	20010	19480	21	—56.5	—47.6	—61.7	—	—
	50	21	20763	21201	20512	21	—55.0	—43.3	—61.1	—	—
	40	17	22277	22710	22010	17	—51.4	—39.5	—58.1	—	—
	30	15	24037	24402	23769	15	—50.0	—39.2	—50.3	—	—
	20	12	26711	27234	26335	12	—44.0	—31.3	—54.6	—	—
	10	5	31563	3274	30865	5	—33.7	—19.5	—46.3	—	—
Aswan 1200 UT	Surface	28	993m.b.	1000m.b.	983m.b.	28	21.7	34.7	17.4	28	2.1
	1000	28	131	193	38	1	17.4	—	—	1	— 5.8
	850	28	1519	1551	1467	28	12.3	21.4	5.8	28	— 9.6
	700	28	3124	3174	3076	28	5.0	11.5	0.7	28	—18.0
	600	28	4370	4496	4307	28	—2.2	0.9	—7.7	28	—23.0
	500	28	5794	6008	5705	28	—11.8	—8.0	—19.0	28	—29.8
	400	28	7464	7613	7360	28	—23.0	—15.7	—26.8	27	—40.4
	300	27	9517	9704	9371	27	—36.0	—31.3	—40.8	27	—51.6
	250	27	10929	10944	10602	27	—44.0	—41.1	—49.4	27	—58.9
	200	27	12231	12390	12075	27	—53.7	—49.7	—48.6	26	—66.6
	150	27	14037	14148	13885	27	—63.7	—58.1	—68.7	2	—71.0
	100	18	16467	16623	16375	18	—71.2	—65.0	—78.1	—	—
	70	8	18597	18746	18465	8	—69.3	—63.8	—73.0	—	—
	60	8	19605	19610	19600	2	—65.2	—64.3	—66.1	—	—
	50	2	20688	20690	20687	2	—59.3	—58.7	—59.9	—	—
	40	1	22170	22170	22170	1	—56.6	—	—	—	—
	30	1	23948	—	—	1	—52.7	—	—	—	—
	20	1	26592	—	—	1	—49.7	—	—	—	—
	10	—	—	—	—	—	—	—	—	—	—

N = The number of cases the element has been observed during the month.

* The atmospheric pressure corrected to the elevation of the radiosonde station.

Table B 2.—MEAN AND EXTREME VALUES OF THE FREEZING LEVEL AND THE TROPOPAUSE :
THE HIGHEST WIND SPEED IN THE UPPER AIR

FEBRUARY — 1975

STATION	Freezing Level									First Tropopause									Highest wind speed				
	Mean			Highest			Lowest			Mean			Highest			Lowest							
	Altitude (gpm)	Pressure (mb.)	Dew Point (°C)	Altitude (gpm)	Pressure (mb.)	Dew Point (°C)	Altitude (gpm)	Pressure (mb.)	Dew Point (°C)	Altitude (gpm)	Pressure (mb.)	Temperature (°C)	Altitude (gpm)	Pressure (mb.)	Temperature (°C)	Altitude (gpm)	Pressure (mb.)	Temperature (°C)	Altitude (gpm)	Pressure (mb.)	Direction (000—360)°	Speed in knots	
0000 U.T.	(N)	(N)	(N)							(N)	(N)	(N)											
	Mersa Matruh . . .	2054 (26)	795 (26)	— 7.3 (26)	3500	661	— 4.5	1010	897	—	10838 (23)	237 (23)	—53.5 (23)	15820	109	—60.0	9100	298	—47.4	8015	350	235	127
	Helwan . . .	2372 (26)	768 (26)	— 9.4 (26)	3660	655	—12.2	1140	892	— 6.0	11148 (27)	237 (27)	—53.9 (27)	15900	106	—70.0	5770	486	—28.1	12910	169	300	153
1200 U.T.	Aswan . . .	3682 (27)	652 (27)	—17.2 (27)	4300	610	— 3.4	2950	710	—21.4	14002 (1)	150 (1)	—67.0 (1)	—	—	—	—	—	—	12600	188	230	150
	(N)	(N)	(N)							(N)	(N)	(N)											
	Mersa Matruh . . .	3413 (27)	765 (27)	—11.1 (26)	3660	653	—28.0	870	919	— 5.3	9696 (17)	241 (17)	—53.5 (17)	15120	124	—54.7	8600	322	—48.1	10355	—	250	120
1800 U.T.	Helwan . . .	2549 (26)	748 (26)	— 9.4 (26)	4410	600	—17.7	1440	85.7	— 3.2	11779 (26)	215 (26)	—53.9 (26)	16620	096	—53.9	8970	310	—43.8	10813	—	275	150
	Aswan . . .	3991 (28)	630 (28)	—21.6 (28)	4550	592	—11.7	3200	691	—22.7	15420 (9)	121 (9)	—69.7 (9)	17340	088	—72.3	14200	144	—65.5	10580	254	270	150

N = The number of cases the element has been observed during the month.

Table B 3.—NUMBER OF OCCURRENCES OF WIND DIRECTION WITHIN SPENCIFIED RANGES AND THE MEAN SCALAR WIND SPEED AT THE STANDARD AND SELECTED PRESSURE SURFACES
MERSA MATRUH (A)—FEBRUARY 1975

Time	Pressure Surface (Millibar)	Wind between ranges of direction (000—360°)															Number of Calm winds	Total Number of Observations (TN)	Mean Scalar wind Speed (Knot)											
		345		015		045		075		105		135		165		195		225		255		285								
		V	(ff)	N	m	N	m	N	(ff)	N	m	N	m	N	m	N	m	N	m	N	m	N	m							
0000 U.T.	Surface	2	9	1	12	2	10	1	12	3	12	2	7	2	6	5	6	3	15	1	8	0	—	4	10	0	26	9		
	1000	1	3	1	12	2	10	3	1	2	18	1	12	0	—	2	8	6	18	1	12	2	18	3	13	0	24	14		
	850	0	—	1	12	2	20	0	—	1	3	0	—	0	—	3	19	1	8	4	27	7	21	1	24	3	15	0	23	19
	700	0	—	0	—	0	—	0	—	0	—	0	—	2	35	0	—	10	33	8	23	2	25	1	29	0	23	29		
	600	0	—	0	—	0	—	0	—	0	—	0	—	2	38	0	—	9	35	9	30	2	35	0	—	0	22	33		
	500	0	—	0	—	0	—	0	—	0	—	0	—	0	—	2	49	10	43	7	33	2	34	0	—	0	21	40		
	400	0	—	0	—	0	—	0	—	0	—	0	—	1	39	12	60	2	61	1	60	0	—	0	—	0	16	53		
	300	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	5	61	4	78	0	—	0	—	0	9	53		
	250	0	—	0	—	0	—	0	—	0	—	0	—	0	—	2	4	4	75	1	71	0	—	0	—	0	4	53		
	200	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	4	58	0	—	0	—	0	0	1	53			
	150	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	5	51	0	—	0	—	0	0	0	53			
	100	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
	70	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
	60	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
	50	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
	40	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
	30	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
	20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
1200 U.T.	Surface	5	7	0	—	0	—	4	14	2	15	9	—	0	—	1	25	3	15	4	15	4	18	4	13	0	27	14		
	1000	1	12	0	—	1	15	3	18	1	24	0	—	0	—	1	16	3	25	5	19	7	21	1	12	0	26	19		
	850	0	—	0	—	1	6	0	—	1	16	1	30	2	17	2	12	6	23	8	21	5	31	0	—	0	26	23		
	700	0	—	0	—	0	—	0	—	1	10	1	25	1	40	4	18	8	24	8	28	2	22	1	20	0	26	21		
	600	0	—	0	—	0	—	0	—	0	—	0	—	1	31	3	28	10	30	9	33	1	45	0	—	0	25	31		
	500	0	—	0	—	0	—	0	—	0	—	0	—	1	34	4	40	9	41	9	42	1	21	0	—	0	23	39		
	400	0	—	0	—	0	—	0	—	0	—	0	—	0	—	3	58	8	58	8	55	0	—	0	—	0	19	53		
	300	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	3	46	12	64	6	64	0	—	0	5	53		
	250	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	2	74	2	55	0	—	0	—	0	6	59		
	200	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	104	0	—	0	—	0	—	0	4	65				
	150	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	60	0	—	0	—	0	—	0	1	104				
	100	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	2	74	2	55	0	—	0	—	0	1	60		
	70	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
	60	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
	50	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
	40	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
	30	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
	20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			

N = The number of cases the element has been observed during the month.

TN—The total number of cases the wind has been observed for all directions during the month.

Table B 3.—(contd.) NUMBER OF OCCURRENCES OF WIND DIRECTION WITHIN SPECIFIED RANGES AND THE MEAN SCALAR WIND SPEED AT THE STANDARD AND SELECTED PRESSURE SURFACES
HELWAN (A) — FEBRUARY 1975

Time	Pressure Surface (Millibar.)	Wind between ranges of direction (000—260°)															Number of Calm winds	Total Number of Observations (T.N.)	Mean Scalar wind speed (knots)																			
		345			015			045			075			105			135			155			195			225			255			285			315			
		N 014	(ff) 643	N 074	N 014	(ff) 104	N 134	N 164	(ff) 194	N 224	N 254	N 284	N 314	N 344	N 014	(ff) 643	N 074	N 014	(ff) 104	N 134	N 164	N 194	(ff) 224	N 254	N 284	N 314	N 344	N 014	(ff) 643	N 074	N 014	(ff) 104	N 134	N 164	N 194	(ff) 224	N 254	N 284
0000 T.U.	Surface	0	—	10	08	1	16	4	06	3	03	1	06	0	—	3	04	0	—	1	07	0	—	3	06	2	28	06										
	1000	2	10	7	10	1	19	4	09	0	—	0	—	0	—	1	20	0	—	0	—	0	—	0	—	0	15	10										
	850	6	13	2	14	0	—	2	13	0	—	0	—	2	10	2	15	1	25	4	25	5	14	3	14	0	27	15										
	700	1	14	0	—	0	—	0	—	0	—	0	—	0	—	0	—	4	18	5	31	9	23	8	26	0	27	25										
	600	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	4	22	4	39	17	32	2	37	0	27	32										
	500	1	24	0	—	0	—	0	—	0	—	0	—	0	—	0	—	7	48	14	41	3	37	0	25	42												
	400	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	9	64	14	60	1	94	0	24	63												
	300	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	5	112	11	98	0	—	0	17	100												
	250	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	62	5	112	8	101	0	—	0	9	102										
	200	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	4	112	0	—	0	4	112										
	150	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	1	107										
	100	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—										
	70	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—											
	60	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—											
	50	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—											
	40	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—											
	30	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—											
	20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—											
	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—											
1200 T.U.	Surface	4	5	0	—	1	16	1	03	0	—	0	—	1	07	8	09	3	11	4	09	2	08	4	04	—	28	08										
	1000	1	02	1	13	1	10	2	08	0	—	0	—	0	—	2	04	0	—	1	07	0	—	1	10	9	07											
	850	1	20	3	10	1	07	1	07	1	03	0	—	1	12	2	10	2	18	4	25	4	20	6	13	26	15											
	700	3	26	0	—	1	06	0	—	0	—	0	—	0	—	0	—	2	20	7	21	7	31	6	24	26	24											
	600	3	26	0	—	0	—	0	—	0	—	0	—	0	—	0	—	2	19	6	40	11	34	4	38	26	34											
	500	1	76	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	8	43	9	48	6	37	24	45											
	400	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	45	18	71	2	68	21	69											
	300	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	112	15	86	0	—	16	112											
	250	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	9	98	0	—	9	98											
	200	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	5	102	0	—	5	102											
	150	0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—											
	100	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—											
	70	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—											
	60	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—											
	50	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—											
	40	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—											
	30	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—											
	20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—											
	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—											

N=The number of cases the wind has been observed from the range of direction during the month

TN — The total number of cases the wind has been observed during the month

Table B 3 (contd.)—NUMBER OF OCCURRENCES OF WIND DIRECTION WITHIN SPECIFIED RANGES AND THE MEAN SCALAR WIND SPEED AT THE STANDARD AND SELECTED PRESSURE SURFACES.
ASWAN (A) — FEBRUARY 1975

Station	Pressure Surface (Millibar)	Wind between specified ranges of direction (000—360) [°]														Number of ea'm winds	Total number of observations (TN)	Mean speed wind speed (knots)								
		345		015		045		075		105		135		165		195		225		255		285		315		
		N /	ff m	N /	ff m	N /	ff m	N /	ff m	N /	ff m	N /	ff m	N /	ff m	N /	ff m	N /	ff m	N /	ff m	N /	ff m			
0000 U.T.	Surface	16	10	5	11	0	—	2	14	1	10	0	—	0	—	0	—	0	—	2	9	2	15	0	28	11
	1000	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	850	2	7	3	11	3	21	2	10	0	—	0	—	1	21	0	—	1	39	4	16	8	10	3	9	0
	700	0	—	6	—	0	—	0	—	0	—	0	—	1	10	1	—	5	24	13	25	6	24	0	26	24
	600	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	16	5	43	18	41	1	32	1	22	0
	500	0	—	5	—	0	—	0	—	0	—	0	—	0	—	1	79	6	50	19	55	0	—	0	26	55
	400	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	70	22	67	0	—	0	—	0	26	68
	300	0	—	0	—	1	—	0	—	0	—	0	—	0	—	4	100	17	100	9	—	0	—	0	21	100
	250	0	—	0	—	0	—	0	—	0	—	0	—	0	—	3	119	16	116	0	—	0	—	0	19	117
	200	0	—	0	—	0	—	0	—	0	—	0	—	0	—	2	133	10	112	6	—	0	—	0	12	116
	150	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	84	0	—	0	—	0	1	84
	100	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0	
	70	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0	
	60	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0	
	50	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0	
	40	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0	
	30	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0	
	20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0	
	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
1200 U.T.	Surface	12	8	4	10	0	—	1	7	0	—	0	—	0	—	0	—	0	—	3	12	7	10	1	28	9
	1000	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	13	0		
	850	6	10	1	13	1	18	2	16	1	18	0	—	1	5	1	5	0	—	3	13	3	11	8	27	12
	700	0	—	0	—	0	—	0	—	0	—	0	—	1	15	0	—	2	20	17	26	7	16	0	27	22
	600	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	44	7	39	18	38	0	—	0	26	39
	500	0	—	0	—	0	—	0	—	0	—	0	—	0	—	5	55	21	52	0	—	0	—	0	26	52
	400	0	—	0	—	0	—	0	—	0	—	0	—	0	—	9	77	17	67	0	—	0	—	0	26	71
	300	0	—	0	—	0	—	0	—	0	—	0	—	0	—	3	92	19	97	0	—	0	—	0	22	96
	250	0	—	0	—	0	—	0	—	0	—	0	—	0	—	4	108	15	112	1	82	0	—	0	20	110
	200	0	—	0	—	0	—	0	—	0	—	0	—	0	—	3	104	10	109	0	—	0	—	0	13	108
	150	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	94	4	99	0	—	0	—	0	5	98
	100	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	64	0	—	0	—	0	1	64
	70	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	60	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	50	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	40	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	30	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	

N = The number of cases the wind has been observed from the range of direction during the month.

TN = The total number of cases the wind has been observed for all directions during the month

REVIEW OF AGRO-METEOROLOGICAL STATIONS

MERSA MATRUH — FEBRUARY 1975

The mean daily air temperature was below normal, and the mean daily relative humidity was above normal. The total monthly rain fall was the same as normal (15.5 mm.).

Weather during this month was generally cold. Three cold waves prevailed the whole month, apart from a short warm spell on the 15th and 16th yielding the highest maximum air temperature for the month (22.4°C). The lowest maximum air temperature was 13.3°C reported on the 10th, and the lowest minimum air temperature was 4.6°C reported on the 4th.

The highest maximum soil temperatures were higher than last February at all depths except at 5 and 10 cm. where they were lower : all the departures were slight (0.2° to 0.5°C). The lowest minimum soil temperatures were higher than last February at all depths except at 100 cm. where its value was the same as last February : the departures varied between 0.1°C (at 20 cm.) and 1.2°C (at 50 cm.).

The mean daily actual sunshine duration was nearly the same as normal. The mean daily wind speed at 1.5 met. height was nearly the same as the corresponding value of February 1974.

TAHRIR — FEBRUARY 1975

The mean daily air temperature for this month was below average, while the mean daily relative humidity was above average. The total monthly rainfall was 11.2 mm. against 4.5 mm. for average.

Weather was generally cold during the first and second weeks when two cold waves prevailed. During the second half of the month weather was generally mild intervened by a pronounced warm spell in the period (17th — 19th) yielding the highest maximum air temperature for the month (31.0°C).

It is noteworthy that minimum air temperature at 5 cm. height fell below 0°C during one day in the dry field and during seven days in the grass field. These minima and their dates of occurrence are given in the following :

Date	12						
Min. air tem. at 5 cm. above dry field	-1.0						
Date	4	6	8	12	13	14	16
Min. air temp. at 5 cm. above grass field	-1.9	-0.4	-1.3	-4.0	-2.8	-0.6	-0.1

The highest maximum soil temperatures in the dry field were lower than average at all depths with departures between 4.5°C (at 2 cm.) and 0.3°C (at 50 cm.). The lowest minimum soil temperatures were also lower than average at all depths with departures between 3.3°C (at 10 cm.) and 0.4°C (at 100 cm.).

The mean daily actual sunshine duration, wind speed at 1.5 met. height and pan evaporation were slightly lower than average.

BAHTIM — FEBRUARY 1975

The mean daily air temperature for this month was slightly lower than average, and the mean daily relative humidity was slightly higher than average. The total monthly rainfall was 7.9 mm. against 0.3 mm. for average.

The prevailing weather was generally cold apart from a short warm spell on the 14th and a pronounced warm spell in the period (17th — 19th) yielding the highest maximum air temperature for the month (30.1°C).

A characteristic feature of this month is that minimum air temperature at 5 cm. height fell below 0°C during 6 days in the dry field and during 8 days in the grass field. These minima and their dates of occurrence are given in the following :

Date	4	12	13	14	15	16
Min. air temp. at 5 cm. above dry field . . .	—1.3	—5.0	—4.7	—2.0	—0.5	—1.3
Date	4	5	6	12	13	14
Min. air temp. at 5 cm. above grass field	—1.2	—0.6	—0.6	—3.4	—3.6	—1.8
					—0.1	—1.

The highest maximum soil temperatures were higher than average at all depths except at 10 cm. where its value was lower by 0.7°C ; the departures varied between 1.4°C (at 2 cm.) and 0.3°C (at 50 cm.). The lowest minimum soil temperatures were lower than average at depths between 2 & 20 cm. with departures between 2.2°C (at 5 cm.) and 0.1°C (at 20 cm.); and higher than average at 50 and 100 cm. by 0.7° and 0.8°C .

The mean daily actual sunshine duration, wind speed at 1.5 met. height and pan evaporation showed slight deviations from the corresponding average values.

KHARGA -- FEBRUARY 1975

The mean daily air temperature was slightly lower than average and the mean daily relative humidity was slightly higher than average. The month was rainless apart from 1.0 mm. on the 20th, against trace for average.

The prevailing weather during this month was generally cold intervened by a short warm spell on the 14th and pronounced warm spell in the period (17th — 19th) yielding both the highest maximum air temperature (34.8°C) and the highest minimum air temperature (20.4°C). It is worthy of mention that minimum air temperature at 5 cm. above soil fell below 0°C (-2.0°C) on the 12th.

The highest maximum soil temperatures were higher than average at depths between 2 and 20 cm. with departures between 3.8°C (at 10 cm.) and 2.0°C (at 20 cm.); and lower than average at 50 and 100 cm. by 0.6°C and 0.2°C . The lowest minimum soil temperatures were lower than average at all depths except at 100 cm. where its value was the same as average; the departures varied between 0.3°C (at 2 cm.) and 2.0°C (at 10 cm.).

The mean daily actual sunshine duration, wind speed at 1.5 met. height and pan evaporation were slightly lower than average.

**Table C 1.—AIR TEMPERATURE AT 1½ METRES ABOVE GROUND
FEBRUARY—1975**

STATION	Air Temperature (°C)					Mean Duration in hours of daily air temperature above the following values										
	Mean Max.	Mean Min.	Mean of the day	Night time mean	Day time mean	-5°C	0°C	5°C	10°C	15°C	20°C	25°C	30°C	35°C	40°C	45°C
Mersa Matruh . . .	17.3	8.7	12.8	11.1	14.5	24.0	24.0	24.0	18.3	6.9	0.4	0.0	0.0	0.0	0.0	0.0
Tahrir	21.4	6.0	13.0	9.7	16.2	24.0	24.0	22.6	15.9	8.7	1.9	0.5	0.0	0.0	0.0	0.0
Bahtim	20.2	5.4	12.5	9.1	15.9	24.0	23.8	21.9	15.4	8.2	1.8	0.4	0.0	0.0	0.0	0.0
Kharga	28.9	7.6	16.2	13.1	19.2	24.0	24.0	23.3	20.0	13.4	7.0	1.6	0.4	0.0	0.0	0.0

**Table C 2. EXTREME VALUES OF AIR TEMPERATURE AT 1½ METRES ABOVE GROUND,
ABSOLUTE MINIMUM AIR TEMPERATURE AT 5cm ABOVE GROUND OVER
DIFFERENT FIELDS**

FEBRUARY — 1975

STATION	Max. Temp. at 1½ metres				Min. Temp. at 1½ metres				Min. Temp. at 5 cms. above			
	Highest		Lowest		Highest		Lowest		Dry soil		Grass	
	Value	Date	Value	Date	Value	Date	Value	Date	Value	Date	Value	Date
Mersa Matruh . . .	22.4	16	13.3	10	14.8	19	4.6	4	1.4	4	—	—
Tahrir	31.0	18	14.7	10	12.6	19	0.2	12	-1.0	12	-4.0	12
Bahtim	30.1	18	15.2	11	12.2	20	-0.4	12-13	-5.0	12	-3.6	13
Kharga	34.8	19	17.9	11	20.4	19	0.4	12	-2.0	12	—	—

Table C 3. (SOLAR+SKY) RADIATION, DURATION OF BRIGHT SUNSHINE, RELATIVE HUMIDITY, VAPOUR PRESSURE AT 1½ METRES ABOVE GROUND, EVAPORATION & RAINFALL

FEBRUARY — 1975

STATION	(Solar+Sky) Radiation g.n. (ca)/cm²	Duration of Bright Sunshine (hours)			Relative Humidity			Vapour pressure (mms)				Evaporation (mms)		Rainfall (mms)					
		Total Actual monthly	Total Possible monthly	%	Mean of day	1200 U.T.	Lowest	Date	Mean of day	1200 U.T.	Highest	Date	Lowest	Date	Piche	Lass A	Total Amount Monthly	Max. fall in one day	Date
M. Matruh . . .	280.8	292.1	309.1	65	73	60	30	16	8.0	8.4	12.4	19	4.7	28	3.3	—	15.5	6.3	28
Tahrir	374.9	291.0	310.4	66	75	53	31	18	8.2	8.7	13.3	29	4.1	1	3.8	4.05	11.2	3.5	19
Bahtim	353.0	212.2	311.1	68	67	43	13	18	7.1	7.0	13.9	20	3.4	14	4.2	4.48	7.9	6.4	20
Kharga	461.9	261.5	316.2	83	42	27	9	17	5.5	5.5	14.7	20	2.5	5	7.0	8.13	1.0	1.0	20

**Table C 4.—EXTREME SOIL TEMPERATURE AT DIFFERENT DEPTHS (cms)
IN DIFFERENT FIELDS**

FEBRUARY — 1975

STATION	Highest (H) Lowest (L)	Extreme soil temperature (°C) in dry field at different depths (cms.)								Extreme soil temperature (°C) in grass field at different depths (cms.)							
		2	5	10	20	50	100	200	300	2	5	10	20	50	100	200	30
Mersa Matruh	H	22.3	21.3	18.7	16.2	16.0	16.2	19.5	—	—	—	—	—	—	—	—	—
	L	5.8	6.2	8.2	10.4	13.3	14.5	18.0	—	—	—	—	—	—	—	—	—
Tahrir	H	30.1	26.6	24.3	20.8	18.4	17.9	19.1	21.1	20.7	19.0	17.9	17.6	15.9	16.1	17.3	—
	L	5.4	5.2	6.0	9.0	13.2	16.0	18.7	20.5	7.3	8.2	8.6	10.8	13.0	14.6	16.6	—
Bahtim	H	37.4	27.5	22.2	20.1	19.3	20.1	23.1	24.4	19.2	17.1	15.9	15.2	15.4	16.1	19.1	—
	L	6.2	6.0	10.4	14.8	17.8	19.8	22.2	23.8	6.1	7.0	8.9	11.0	13.7	15.6	18.4	—
Kharga	H	42.3	36.4	32.0	26.0	22.3	23.0	25.5	27.8	—	—	—	—	—	—	—	—
	L	4.8	7.3	10.1	15.6	19.2	22.1	24.6	26.8	—	—	—	—	—	—	—	—

Table C 5.—SURFACE WIND

FEBRUARY — 1975

STATION	Wind Speed m/sec at 1½ metres			Days with surface wind speed at 10 metres								Max. Gust (knots at 10 metres)					
	Mean of the day	Night time mean	Day time mean	≥ 10		≥ 15		≥ 20		≥ 25		≥ 30		≥ 35		≥ 40	
				knots	knots	knots	knots	knots	knots	knots	knots	knots	knots	knots	Value (knots)	Date	
Mersa Matruh	4.0	3.1	4.8	28	23	10	6	3	0	0	45	1					
Tahrir	2.2	1.5	2.9	27	15	6	5	1	1	1	48	1					
Bahtim	2.3	1.6	3.1	25	15	4	2	0	0	0	36	1					
Khaga	2.3	1.6	3.0	26	9	3	1	0	0	0	32	28					

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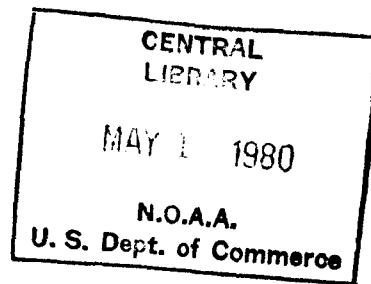
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PUBLICATIONS OF THE METEOROLOGICAL AUTHORITY OF THE ARAB REPUBLIC OF EGYPT—CAIRO

In fulfilment of its duties, the Egyptian Meteorological Authority issues several reports and publications on weather, climate and agro-meteorology. The principal publications are described on this page.

Orders for publications should be addressed to :

"Chairman of the Board of Directors, Meteorological Authority, Kubri-el-Qubbeh — CAIRO".

THE MONTHLY WEATHER REPORT

First issued in 1909, the Monthly Weather Report served to give a brief summary of the weather conditions that prevailed over Egypt during the month, with a table showing the mean values for few meteorological elements and their deviations from the normal values. From 1954 to 1957 this report was in a rapid state of development and extension resulting into a voluminous report on January 1958 giving surface, upper air, and agro-meteorological data for Egypt.

As from January 1964, the Monthly Weather Report was pressed to give climatological data for a representative selection of synoptic stations.

THE AGRO-METEOROLOGICAL ABRIDGED MONTHLY REPORT

Gives a review of weather experienced in the agro-meteorological stations of Egypt as well as monthly values of certain elements.

THE ANNUAL REPORT

This report gives annual values and statistics for the various meteorological elements, together with a summary of the weather conditions that prevailed during all months of the year.

CLIMATOLOGICAL NORMALS FOR EGYPT

A voluminous edition was issued in March 1968 which brings normals and mean values up till 1960.

METEOROLOGICAL RESEARCH BULLETIN

First issued in January 1969 on a bi-annual basis. It includes research works carried out by members of staff of "The Meteorological Institute for Research and Training" and the Operational Divisions of the Meteorological Authority.

TECHNICAL NOTES

As from October 1970, the Meteorological Authority started to issue a new series of publications in the form of Technical Notes (non periodical) on subjects related to studies and applications of meteorology in different fields for the benefit of personnel working in these fields.

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Note For explanatory notes on the tables please refer to Volume 18, Number 1 (January 1975).

GENERAL SUMMARY OF WEATHER CONDITIONS

MARCH 1975

Changeable weather; a cold wave and four short khamsin heat waves.

PRESSURE DISTRIBUTION

Four depressions passed through the East Mediterranean on the 10th, 17th, 22nd & 26th, the third of which was the deepest.

High pressure established in their rears.

SURFACE WIND

Light to moderate Nly winds prevailed mostly, but changed to SWly in advance of depressions and to NWly in their rears, fresh or strong at times.

TEMPERATURE

This month was characterized by a moderate cold wave during the first week, and four short khamsin heat waves the third of which was the hottest and reached its peak on the 22nd & 23rd.

Maximum air temperature showed large variability, it was above normal during the heat waves and below normal otherwise..

The highest and lowest maximum air temperatures were respectively : 38.0°C at Aswan on the 23rd and 13.9°C at Port Said on the 1st.

Minimum air temperature showed irregular moderate departures below and above normal.

The highest and lowest minimum air temperatures were respectively : 22.0°C at Ras Benas on the 31st and 11.1°C at Dakhla on the 3rd.

PRECIPITATION

Precipitation was confined to light rain on the 1st over scattered places in north.

The monthly rainfall was below normal.

The maximum daily rainfall was 6.2 mm. at Port Said on the 1st. This value represents also the maximum monthly rainfall.

OTHER WEATHER PHENOMENA

Rising sand occurred over scattered places in association with khamsin waves. Widespread rising sand with scattered sandstorms occurred round the 22nd.

Early morning mist was reported during few days in Delta, Cairo and north of Middle Egypt.

Chairman (A. F. HASAN.)
Board of Directors

Cairo, January 1977

SURFACE DATA

**Table A 1. — MONTHLY VALUES OF THE ATMOSPHERIC PRESSURE, AIR TEMPERATURE,
RELATIVE HUMIDITY, BRIGHT SUNSHINE DURATION & PICHE EVAPORATION.
MARCH — 1975**

STATION	Atmospheric Pressure (mbs) M.S.L		Air Temperature °C						Relative Humidity %		Bright Sunshine Duration (Hours)			Piche Evaporation mm. Mean			
	Mean	D.F Normal or Average	Maximum		Minimum		A+B 2	Dry Bulb		Wet Bulb		Mean	D.F Normal or Average	Total Actual	Total Possible	%	
			(A) Mean	D.F Normal or Average	(B) Mean	D.F Normal or Average		Mean	D.F Normal or Average	Mean	D.F Normal or Average						
Sallum	1015.3	+ 0.3	22.8	+ 1.4	11.9	+ 0.7	17.4	16.5	+ 1.2	12.1	+ 0.6	60	+ 6	—	—	—	7.0
Mersa Matruh (A)	1016.4	+ 0.9	20.8	+ 0.3	9.3	- 0.8	15.0	14.6	- 0.5	10.4	- 1.1	62	0	288.7	371.0	78	5.3
Alexandria . . (A)	1015.5	+ 0.2	22.3	+ 1.0	9.6	- 1.6	16.0	15.5	- 0.4	12.0	- 0.3	68	+ 3	300.4	371.0	83	3.9
Port Said . . (A)	1015.8	+ 0.6	21.9	+ 1.6	13.4	0.0	17.6	16.8	+ 0.3	13.0	- 0.2	64	- 3	281.8	371.0	76	4.2
El Arish	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Ghazza	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tanta	1015.8	- 0.1	23.7	- 0.1	6.7	- 1.7	15.2	14.7	- 1.0	11.1	- 0.7	67	- 7	310.8	371.1	84	4.0
Cairo (A)	1016.1	+ 0.9	24.9	+ 1.0	11.8	+ 0.3	18.4	17.9	+ 0.4	11.9	- 0.2	50	+ 1	—	—	—	12.9
Fayoum	—	—	26.8	+ 1.5	8.2	- 1.7	17.5	17.4	- 0.3	12.0	- 0.0	54	+ 8	—	—	—	6.0
Minya (A)	1016.3	+ 0.9	26.9	+ 1.1	7.4	- 0.5	17.2	17.0	+ 0.4	11.0	- 0.1	50	+ 3	313.7	371.3	84	8.8
Assyout (A)	1015.8	+ 1.0	26.5	0.0	8.8	- 1.9	17.6	17.6	- 1.0	9.7	- 1.3	33	+ 16	—	—	—	11.9
Luxor (A)	1013.5	+ 0.1	30.7	+ 1.3	10.4	- 0.4	20.6	20.3	+ 0.1	11.8	+ 0.5	34	0	—	—	—	8.4
Aswan (A)	1013.2	+ 0.1	30.4	0.0	13.2	+ 0.6	21.8	21.7	- 0.2	11.0	- 0.2	20	+ 3	—	—	—	18.2
Siwa	1015.9	+ 0.5	25.8	+ 0.7	9.0	+ 0.5	17.4	17.2	- 0.1	10.8	+ 0.4	40	+ 3	321.8	371.3	87	8.2
Bahariya	1015.9	+ 0.6	26.6	+ 1.0	9.1	+ 0.1	17.8	18.0	+ 0.1	10.0	- 0.5	33	- 2	—	—	—	9.7
Farafra	1017.0	+ 0.4	27.6	+ 1.1	8.9	+ 0.1	18.2	17.3	- 0.5	9.5	- 0.2	32	+ 3	—	—	—	10.1
Dakhla	1015.7	+ 0.7	28.6	+ 0.8	6.6	- 2.8	17.6	17.7	- 0.5	9.8	- 0.5	35	+ 10	—	—	—	12.0
Kharga	1014.6	+ 0.6	29.2	+ 0.7	9.8	- 1.2	19.5	20.0	0.0	10.6	- 0.3	32	+ 3	335.5	371.9	90	9.9
Tor	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hurghada	1013.7	+ 0.3	25.2	+ 1.6	14.0	+ 1.5	19.6	19.8	+ 0.9	13.6	+ 0.4	49	0	320.7	371.8	86	9.2
Quseir	1014.4	+ 0.8	24.4	- 0.3	16.7	+ 0.3	20.6	20.6	0.0	14.6	+ 0.4	48	+ 2	—	—	—	8.9

TABLE A2.— MAXIMUM AND MINIMUM AIR TEMPERATURE

MARCH — 1975

Station	Maximum Temperature °C										Grass Min. Temp.	Minimum Temperature °C										
	Highest	Date	Lowest	Date	No. of Days with Max-Temp.							Mean	D. Fr. Normal	Highest	Date	Lowest	Date	No. of Days with Min. Temp.				
					>25	>30	>35	>40	>45	<10								<5	<0	<-5		
Sallum	32.9	20	16.9	1	5	3	0	0	0	10.9	17.1	31	6.8	1	6	0	0	0	0	0	0	
Mersa Matruh . (A)	31.0	22	15.0	1	5	1	0	0	0	6.7	15.3	22	6.0	3	19	0	0	0	0	0	0	
Alexandria . . . (A)	34.6	22	16.9	1	6	2	0	0	0	6.5	14.1	26	5.1	3	18	0	0	0	0	0	0	
Port Said . . . (A)	34.6	22	13.9	1	4	2	0	0	0	12.9	16.6	22	8.8	2	9	0	0	0	0	0	0	
El Arish	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Ghazza	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Tanta	33.8	22	16.0	1	10	3	0	0	0	—	12.0	23	2.6	3	29	5	0	0	0	0	0	
Cairo (A)	35.3	22	16.4	1	13	5	1	0	0	—	19.8	22	8.0	3	5	0	0	0	0	0	0	
Fayoum	34.6	22	17.0	1	19	7	0	0	0	5.3	12.2	23	3.7	3	28	1	0	0	0	0	0	
Minya (A)	34.6	22	18.4	1	20	8	0	0	0	3.9	14.2	23	3.6	4	28	4	0	0	0	0	0	
Assyout (A)	35.0	23	15.5	1	19	10	0	0	0	6.6	15.7	23	3.8	4	20	2	0	0	0	0	0	
Luxor (A)	37.4	23	19.1	1	28	20	1	0	0	5.1	16.8	24	5.0	2	10	0	0	0	0	0	0	
Aswan (A)	38.0	23	20.3	2	28	16	2	0	0	—	19.0	24	6.0	2	3	0	0	0	0	0	0	
Siwa	35.0	22	17.7	1	15	6	1	0	0	8.2	18.8	22	4.6	4.5	21	3	0	0	0	0	0	
Bahariya	35.2	22	16.6	1	21	6	1	0	0	8.1	16.3	23	4.8	3	23	1	0	0	0	0	0	
Zarafra	35.7	22	17.3	1	25	10	1	0	0	7.8	14.7	23-31	3.2	4	24	1	0	0	0	0	0	
Dakhla	36.5	22	17.4	1	24	11	2	0	0	6.4	16.3	23	1.1	3	28	12	0	0	0	0	0	
Kharga	36.8	23	18.4	1	27	13	2	0	0	7.8	17.4	31	2.6	4	18	3	0	0	0	0	0	
Tor	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Hurghada	30.3	22	19.3	2	17	1	0	0	0	14.0	17.7	23	9.7	2	1	0	0	0	0	0	0	
Quseir	28.6	16	20.0	2,3	12	0	0	0	0	20.2	31	13.1	—	2	—	—	—	—	—	—	—	

TABLE A 3.—SKY COVER AND RAINFALL

MARCH — 1975

Station	Mean Sky Cover Oct.					Rainfall mm.s.										
	00 U.T.	06 U.T.	12 U.T.	18 U.T.	Daily Mean	Total Amount	D. From Normal	Max. Fall in one day		Number of Days with Amount of Rain						
	00 U.T.	06 U.T.	12 U.T.	18 U.T.	Daily Mean	Total Amount		Amount	Date	<0.1	≥0.1	≥1.0	≥5.0	≥10	≥25	≥50
Sallum	3.2	1.4	2.4	1.5	2.2	1.1	+ 8.7	0.8	1	0	2	0	0	0	0	0
Mersa Matroh . . (A)	0.8	2.1	1.9	1.2	1.5	3.3	+ 1.8	2.0	1	0	2	2	0	0	0	0
Alexandria . . . (A)	1.1	1.6	2.2	1.3	1.6	3.8	+ 8.1	3.8	1	0	1	1	0	0	0	0
Port Said (A)	0.3	1.7	1.8	0.9	1.2	6.2	+ 1.3	6.2	1	0	1	1	1	0	0	0
E. Arish	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Ghazla	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tanta	0.4	0.8	2.0	0.1	0.9	2.2	+ 2.5	2.2	1	0	1	1	0	0	0	0
Cairo (A)	0.4	1.1	1.0	0.3	1.2	0.2	+ 2.2	0.2	1	0	1	0	0	0	0	0
Fayoum	—	0.0	1.4	0.9	—	0.0	+ 1.4	0.0	—	0	0	0	0	0	0	0
Minya (A)	0.2	0.9	1.0	0.5	0.6	0.0	+ 0.2	0.0	—	0	0	0	0	0	0	0
Assyout (A)	0.0	0.3	0.7	0.5	0.3	0.0	+ Tr.	0.0	—	0	0	0	0	0	0	0
Luxor (A)	0.9	1.0	2.0	0.8	1.4	0.0	+ Tr.	0.0	—	0	0	0	0	0	0	0
Awan (A)	0.8	1.8	2.2	1.1	1.5	0.0	+ Tr.	0.0	—	0	0	0	0	0	0	0
Siwa	0.7	0.9	1.6	0.5	0.9	0.0	+ 0.2	0.0	—	0	0	0	0	0	0	0
Rahariya	0.2	1.1	1.5	0.2	0.7	0.0	+ Tr.	0.0	—	0	0	0	0	0	0	0
Farafra	—	1.3	1.0	0.4	—	0.0	+ 0.2	0.0	—	0	0	0	0	0	0	0
Dakhla	0.2	0.9	1.6	0.7	0.9	0.0	+ Tr.	0.0	—	0	0	0	0	0	0	0
Kharga	0.5	1.0	1.6	0.8	1.0	0.0	+ Tr.	0.0	—	0	0	0	0	0	0	0
Tor	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hurghada	0.4	0.9	1.0	1.2	0.9	0.0	+ 0.4	0.0	—	0	0	0	0	0	0	0
Quseir	0.7	1.4	1.3	1.2	1.4	0.0	+ 0.2	0.0	—	0	0	0	0	0	0	0

Table A 4. — DAYS OF OCCURRENCE OF MISCELLANEOUS WEATHER PHENOMENA.
MARCH — 1975

Station	Precipitation				Frost	Thunderstorm	Mist Vis ≥ 1000 Metres	Fog Vis < 1000 metres	Haze Vis ≥ 1000 Metres	Thick Haze Vis < 1000 Metres	Dust or Sandstorm Vis ≥ 1000 Metres	Gale	Clear Sky	Cloudy Sky	
	Rain	Snow	Ice. Pellets	Hail											
Sallum	2	0	0	0	0	0	0	0	0	0	0	0	0	18	0
Mersa Matruh . . . (A)	2	0	0	0	0	0	1	0	0	0	0	0	0	22	1
Alexandria (A)	1	0	0	0	0	0	0	0	0	0	0	0	0	20	0
Port Said (A)	1	0	0	0	0	0	0	0	0	0	0	0	0	24	0
El Arish	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Ghazza	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tanta	1	0	0	0	0	0	7	0	1	0	1	0	0	25	0
Cairo (A)	1	0	0	0	0	0	2	1	8	0	5	1	0	20	0
Fayoum	0	0	0	0	0	0	0	0	0	0	1	0	0	—	—
Minya (A)	0	0	0	0	0	0	4	0	6	0	5	1	0	27	0
Assyout (A)	0	0	0	0	0	0	1	0	1	0	4	1	0	29	0
Luxor (A)	0	0	0	0	0	0	0	0	12	0	13	2	0	22	1
Aswan (A)	0	0	0	0	0	0	0	0	1	0	11	4	0	20	0
Siwa	0	0	0	0	0	0	0	0	0	0	14	0	0	25	0
Bahariya	0	0	0	0	0	0	0	0	0	0	1	1	0	28	0
Farafra	0	0	0	0	0	0	0	0	0	0	3	0	0	—	—
Dakhla	0	0	0	0	0	0	0	0	0	0	3	0	0	26	0
Kharga	0	0	0	0	0	0	0	0	0	0	7	1	0	27	1
Tor	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hurghada	0	0	0	0	0	0	0	0	0	0	13	2	0	25	1
Quseir	0	0	0	0	0	0	0	0	0	0	1	0	0	21	1

Table A 5. NUMBER IN HOURS OF OCCURRENCES OF CONCURRENT SURFACE WIND SPEED AND DIRECTION RECORDED WITHIN SPECIFIED RANGES

MARCH — 1975

Station	Calm (hours)	Variable (hours)	Unrecorded (hours)	Wind speed in knots	Number in hours of occurrences of wind blowing from the ranges of directions indicated												All directions
					345	015	045	075	105	135	165	195	225	255	285	315	
					014	044	074	104	134	164	194	224	254	284	314	344	
Sallum	17	4	31	1—10	17	23	56	85	77	25	35	23	22	51	68	25	507
				11—27	0	0	2	2	4	0	1	19	39	41	47	27	182
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	17	23	58	82	81	25	36	42	61	92	115	52	689
Marsa Matruh . . (A)	5	0	1	1—10	20	24	33	78	113	81	32	45	58	21	28	44	579
				11—27	0	0	0	17	3	1	30	10	13	11	54	17	159
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	20	24	33	95	118	82	62	55	71	35	82	61	138
Alexandria . . . (A)	5	1	95	1—10	66	90	45	61	46	20	12	16	8	11	21	53	449
				11—27	5	38	3	3	1	4	3	8	9	33	69	18	194
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	71	128	48	64	47	24	15	24	13	44	90	71	643
Cairo . . . (A)	45	9	66	1—10	32	71	77	10	13	9	16	13	10	32	22	38	403
				11—27	21	72	43	6	7	7	5	5	21	27	3	1	221
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	53	146	120	46	29	16	21	18	61	59	35	39	624
Fayoum . . . (A)	3	3	2	1—10	94	232	41	9	18	21	23	33	53	36	38	39	637
				11—27	0	64	9	0	0	0	2	7	0	8	7	2	99
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	94	296	50	9	18	21	25	40	53	44	45	41	236
Minya . . . (A)	27	3	19	1—10	196	60	15	7	1	40	23	1	12	18	31	68	472
				11—27	124	50	1	0	0	6	7	1	1	0	6	26	222
				28—47	0	0	0	0	0	0	0	0	0	0	1	0	1
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	320	410	16	7	1	46	30	2	13	18	38	94	695
Asyout . . . (A)	63	0	31	1—10	89	96	41	33	17	18	45	35	26	44	75	66	585
				11—27	11	8	10	0	0	0	1	2	0	0	9	24	65
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	100	104	51	33	17	18	46	37	26	44	84	90	650
Luxor . . . (A)	3	1	7	1—10	24	108	4	5	2	5	15	4	4	4	11	65	475
				11—27	98	77	4	0	1	1	2	1	2	1	5	65	257
				28—47	1	0	0	0	0	0	0	0	0	0	0	0	1
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	347	185	8	5	3	6	17	5	6	5	16	130	733

Table A 5 (contd.) - NUMBER IN HOURS OF OCCURRENCES OF CONCURRENT SURFACE WIND SPEED AND DIRECTION RECORDED WITHIN SPECIFIED RANGES

MARCH - 1975

Station	Calm (hours)	Variable (hours)	Unrecorded (hours)	Wind speed in knots	Number in hours of occurrences of wind blowing from the ranges of directions indicated													All directions
					345	015	045	075	105	135	165	195	225	255	285	315		
					014	044	074	104	134	164	194	224	254	284	314	344		
<i>Aswan . . . (A)</i>	3	6	3	1--10	7	11	16	115	127	67	25	20	30	40	39	18	510	
				11-27	3	3	0	18	37	12	19	2	11	13	46	30	194	
				28-47	0	0	0	0	0	0	0	0	0	0	0	0	0	
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0	
				All speeds	10	14	16	133	164	79	44	23	41	53	85	43	704	
<i>Siwa . . . (A)</i>	6	1	62	1--10	64	48	31	37	19	29	26	46	47	58	88	116	609	
				11-27	4	16	0	0	0	0	0	1	0	0	10	35	66	
				28-47	0	0	0	0	0	0	0	0	0	0	0	0	0	
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0	
				All speeds	68	64	31	37	19	29	26	47	47	58	98	151	675	
<i>Dakhlia . . .</i>	12	1	10	1--10	198	88	41	10	13	6	8	4	11	18	33	116	546	
				11-27	103	29	2	1	0	0	3	1	1	0	5	30	175	
				28-47	0	0	0	0	0	0	0	0	0	0	0	0	0	
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0	
				All speeds	301	117	43	11	13	6	11	5	12	18	38	146	721	
<i>Kharga . . .</i>	8	0	23	1--10	31	23	10	16	11	10	9	2	7	32	134	19	304	
				11-27	83	1	1	1	6	8	1	1	1	8	146	144	401	
				28-47	1	0	0	0	0	0	0	0	0	0	0	7	8	
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0	
				All speeds	115	24	11	11	17	18	10	3	8	40	280	170	713	
<i>Hurghada . . .</i>	0	0	81	1--10	37	20	15	4	3	6	9	5	12	74	110	31	326	
				11-27	98	2	0	0	1	7	0	0	0	0	3	63	163	
				28-47	0	0	0	0	0	0	0	0	0	0	0	0	0	
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0	
				All speeds	135	22	15	4	4	13	9	5	12	77	173	194	663	
<i>Quseir . . .</i>	8	6	0	1--10	31	23	11	16	11	11	9	2	7	32	139	20	312	
				11-27	86	1	1	1	6	8	1	1	1	9	153	148	416	
				28-47	1	0	0	0	0	0	0	0	0	0	0	7	8	
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0	
				All speeds	118	24	12	17	17	19	10	3	8	41	292	175	736	
<i>Cansel . . .</i>	0	0	8	1--10	40	20	16	5	3	5	11	5	15	86	125	36	367	
				11-27	104	2	0	0	1	7	0	0	0	0	3	66	186	369
				28-47	0	0	0	0	0	0	0	0	0	0	0	0	0	
				≥48	0	0	0	0	0	0	0	0	0	0	9	0	0	
				All speeds	144	22	16	5	4	12	11	5	15	89	191	222	736	

UPPER AIR CLIMATOLOGICAL DATA

TABLE B 1—MONTHLY MEANS AND MONTHLY ABSOLUTE HIGHER & LOWER
VALUES OF ALTITUDE, AIR TEMPERATURE & DEW POINT AT
STANDARD AND SELECTED PRESSURE SURFACES

MARCH — 1975

No.	Pressure Surface (Millibar)	Altitude of Pressure Surface (gpm)				Temperature (°C)				Dew Point (°C)	
		N	Mean	Highest	Lowest	N	Mean	Highest	Lowest	N	Mean
Matruh 0000 U.T.	Surface	29	1014m.b.	1023m.b.	1003m.b.	29	13.0	19.0	9.0	29	7.6
	1000	29	141	214	53	28	12.6	21.0	8.2	28	6.8
	850	29	1495	1570	1420	28	6.7	17.4	—3.2	28	—10.4
	700	29	3072	3147	2993	29	—0.5	4.7	—10.3	29	—21.8
	600	29	4288	4376	4164	29	—8.6	—3.4	—17.3	28	—26.7
	500	27	5674	5781	5319	27	—18.5	—14.5	—24.3	27	—36.1
	400	24	7291	7426	7104	24	—30.4	—26.2	—36.8	23	—45.0
	300	24	9277	9436	9046	24	—44.3	—40.7	—48.8	23	—56.3
	250	24	10482	10644	10250	24	—48.1	—46.0	—57.2	20	—59.6
	200	22	11935	12110	11709	22	—53.9	—48.0	—59.1	20	—63.9
	150	22	13762	13970	13495	22	—58.4	—48.9	—63.8	12	—67.6
	100	22	16290	16487	16025	22	—63.7	—56.5	—70.6	—	—
	70	22	18481	18747	18235	22	—63.3	—57.7	—71.1	—	—
	60	19	19476	19760	19160	19	—61.7	—57.6	—65.5	—	—
	50	18	20596	20867	20434	18	—60.3	—56.3	—64.1	—	—
	40	12	22010	22340	21730	12	—58.8	—55.0	—62.8	—	—
	30	8	23673	23894	23633	8	—57.0	—53.3	—61.2	—	—
	20	5	26445	26514	26330	5	—54.7	—51.5	—58.0	—	—
	10	—	—	—	—	—	—	—	—	—	—
Helwan 0000 U.T.	Surface	31	999m.b.	1010m.b.	990m.b.	31	14.2	24.6	9.1	31	3.4
	1000	29	131	213	48	14	13.1	19.0	10.1	13	5.7
	850	29	1496	1570	1458	29	10.1	19.4	0.1	28	7.7
	700	29	3088	3160	2984	28	1.1	6.6	—11.1	28	—17.1
	600	29	4310	4403	4158	29	—6.2	—1.8	—16.9	28	—24.1
	500	28	5709	5825	5504	28	—16.0	—12.8	—26.3	27	—32.2
	400	28	7349	7495	7106	28	—28.0	—24.2	—32.9	27	—41.3
	300	27	9355	9529	9110	27	—41.8	—36.8	—48.4	26	—53.3
	250	25	10508	10754	10386	25	—48.1	—42.1	—55.0	24	—59.4
	200	25	12035	12205	11831	25	—53.7	—48.5	—59.5	23	—64.2
	150	20	13841	14039	13670	20	—59.9	—56.3	—63.9	9	—66.9
	100	19	16342	16558	16191	19	—65.3	—57.9	—71.9	1	—69.4
	70	15	18504	18751	18350	15	—67.3	—63.4	—69.9	—	—
	60	15	19483	19720	19380	15	—61.8	—61.0	—68.3	—	—
	50	15	20562	2082	20400	15	—61.8	—57.7	—66.0	—	—
	40	9	22041	22360	21980	9	—60.1	—56.0	—64.1	—	—
	30	9	23781	24010	23612	9	—58.1	—54.6	—61.1	—	—
	20	5	26351	26481	26210	5	—55.0	—53.0	—58.2	—	—
	10	2	30855	30880	30830	2	—47.2	—46.3	—48.2	—	—
Aswan 0000 U.T.	Surface	31	991m.b.	* 1000m.b.	* 986m.b.	31	16.5	21.6	9.3	31	2.0
	1000	31	120	193	66	2	9.9	10.5	9.3	2	2.7
	850	31	1505	1514	1480	31	15.1	20.9	5.6	31	5.5
	700	31	3125	3182	3076	31	6.5	10.8	0.2	31	—13.6
	600	31	4372	4473	4306	31	—1.4	2.6	—7.1	31	—19.2
	500	31	5802	5869	5720	31	—11.3	—6.0	—16.8	31	—25.6
	400	31	7474	7570	7372	31	—23.1	—17.6	—29.8	31	—35.5
	30	31	9528	9638	9391	30	—35.9	—31.8	—41.1	30	—46.6
	250	31	10774	10930	10612	30	—44.5	—39.6	—49.7	30	—54.8
	200	29	12238	12329	12056	29	—54.8	—50.6	—57.2	28	—63.5
	150	25	14037	14234	13862	25	—65.1	—60.7	—69.8	—	—
	100	10	16410	16528	16332	10	—72.4	—67.0	—77.2	—	—
	70	3	18505	18535	18472	3	—71.7	—70.7	—72.8	—	—
	60	2	19470	19480	19460	2	—68.6	—68.3	—68.9	—	—
	50	2	20540	20546	20533	2	—64.2	—63.2	—65.3	—	—
	40	2	22010	22020	22000	2	—59.3	—57.8	—60.8	—	—
	30	2	23746	23758	23734	2	—55.0	—54.1	—56.0	—	—
	20	1	26330	—	—	1	—55.2	—	—	—	—
	10	—	—	—	—	—	—	—	—	—	—

N = The number of cases the element has been observed during the month.

* The atmospheric pressure corrected to the elevation of the radiosonde station.

UPPER AIR CLIMATOLOGICAL DATA

Table B 1.(cont.)—MONTHLY MEANS AND MONTHLY ABSOLUTE HIGHER & LOWER
VALUES OF ALTITUDE, AIR TEMPERATURE & DEW POINT AT
STANDARD AND SELECTED PRESSURE SURFACES

MARCH — 1975

Station	Pressure Surface Millibar	Altitude of Pressure Surface (gpm)				Temperature (°C)				Dew Point (°C)	
		N	Mean	Highest	Lowest	N	Mean	Highest	Lowest	N	Mean
Marsa Matruh 1200 U.T.	Surface	28	1013m.b.	1022m.b.	1004m.b.	28	19.4	26.6	13.0	28	6.2
	1000	28	139	211	63	28	18.3	26.0	10.2	28	4.2
	850	28	1507	1584	1408	28	9.5	18.4	—4.9	28	—8.8
	700	27	3099	3223	3001	27	1.3	6.8	—4.6	27	—18.8
	600	27	4321	4768	4211	27	—7.1	—3.4	—10.0	27	—26.6
	500	25	5716	5890	5601	25	—17.1	—11.1	—20.4	25	—34.7
	400	25	7350	7545	7233	25	—28.6	—22.3	—33.0	25	—45.3
	300	21	9341	9615	9218	21	—42.4	—36.5	—48.3	20	—58.3
	270	20	10511	10350	1008	20	—49.6	—41.5	—57.4	19	—63.7
	200	20	12006	12300	11832	20	—52.8	—44.3	—56.0	18	—66.6
	150	18	13827	14100	13052	18	—56.8	—51.3	—61.2	13	—70.8
	100	17	16396	16760	16200	17	—62.1	—58.0	—68.3	1	—73.5
	070	12	18604	18781	18412	12	—62.5	—58.2	—72.1	—	—
	060	11	19662	19750	19100	11	—60.6	—56.0	—63.0	—	—
	050	11	20707	20874	20500	11	—57.5	—51.4	—60.6	—	—
	040	6	22200	22350	22000	6	—55.2	—53.5	—58.9	—	—
	030	5	24012	24089	23869	5	—52.4	—48.9	—55.3	—	—
	020	2	26680	26719	26640	2	—48.1	—48.0	—48.7	—	—
	010	—	—	—	—	—	—	—	—	—	—
Helwan 1200 U.T.	Surface	31	999m.b.	1007m.b.	985m.b.	31	24.0	34.2	15.5	31	2.3
	1000	31	122	197	008	15	22.2	29.9	15.1	15	1.1
	850	30	1512	1573	1451	30	11.5	21.0	—0.8	30	—8.0
	700	30	3114	3205	3018	30	3.6	10.0	—5.8	30	—19.1
	600	30	4352	4465	4244	30	—1.2	—1.3	—11.9	30	—25.1
	500	30	5764	5911	5700	30	—13.5	—6.9	—20.8	29	—32.0
	400	27	7427	7615	7230	26	—25.0	—19.9	—34.2	26	—41.1
	300	27	9460	9689	9192	27	—39.2	—33.0	—46.6	27	—53.0
	250	27	10791	10939	10397	27	—45.9	—38.0	—53.5	27	—58.6
	200	27	12143	12112	11858	27	—50.5	—46.0	—55.7	27	—62.6
	150	27	14019	14273	13721	27	—55.0	—49.7	—60.3	25	—66.0
	100	25	16589	17877	16281	24	—60.3	—54.9	—69.0	3	—69.3
	70	17	18816	19107	18498	17	—55.8	—52.9	—62.3	—	—
	60	15	19820	20170	19500	15	—56.4	—49.4	—63.9	—	—
	50	15	20945	21319	20667	15	—53.3	—43.4	—59.0	—	—
	40	13	22481	22960	22140	13	—49.8	—36.2	—58.2	—	—
	30	12	24311	25871	23847	12	—44.1	—28.7	—54.5	—	—
	20	12	27020	27411	26170	12	—37.7	—22.1	—49.3	—	—
	10	5	31793	32169	31087	5	—26.6	—23.2	—39.0	—	—
Aswan 1200 U.T.	Surface	31	991m.b.	1000m.b.	985m.b.	31	29.4	35.6	19.9	31	—0.9
	1000	31	169	193	072	1	19.9	—	—	1	—3.0
	850	31	1521	1555	1490	31	17.1	26.0	8.1	31	—10.4
	700	29	3151	3178	3097	29	8.2	13.8	2.8	28	—18.4
	600	28	4406	4441	4332	28	0.3	3.9	4.7	27	—23.7
	500	26	5842	5886	5769	26	—9.7	—4.0	—14.5	24	—17.7
	400	22	7524	7584	7425	22	—21.4	—17.0	—25.7	21	—40.1
	300	22	9581	9683	9366	22	—33.6	—29.9	—40.9	21	—51.4
	250	22	10846	10955	10676	22	—42.8	—36.1	—48.8	21	—58.5
	200	22	12368	12470	12096	22	—52.7	—46.3	—55.7	20	—67.2
	150	20	14140	14340	13907	20	—63.6	—54.9	—69.8	2	—68.5
	100	18	16581	16853	16124	18	—71.9	—66.6	—77.5	—	—
	70	8	18661	18732	18570	8	—71.5	—67.7	—77.2	—	—
	60	1	19580	—	—	1	—67.7	—	—	—	—
	50	1	20668	—	—	1	—66.1	—	—	—	—
	40	—	—	—	—	—	—	—	—	—	—
	30	—	—	—	—	—	—	—	—	—	—
	20	—	—	—	—	—	—	—	—	—	—
	10	—	—	—	—	—	—	—	—	—	—

N = The number of cases the element has been observed during the month.

* The atmospheric pressure corrected to the elevation of the radiosonde stations.

**Table B 2.—MEAN AND EXTREME VALUES OF THE FREEZING LEVEL AND THE TROPOPAUSE.
THE HIGHEST WIND SPEED IN THE UPPER AIR**
MARCH - 1975

Station	Freezing level												First Tropopause												Highest wind speed				
	Mean				Highest				Lowest				Mean				Highest				Lowest								
	Altitude (gpm)	Pressure (mb.)	Dew point (°C)	Altitude (gpm)	Pressure (mb.)	Temperature (°C)	Direction (000-360°)	Speed in Knots																					
0000 U.T.	(N)	(N)	(N)											(N)	(N)	(N)													
	Merse Matruh (A)	2816 (29)	727 (29)	-18.5 (29)	3680	651	-22.4 (29)	1180	889	-4.8	12789 (22)	186 (22)	-58.8 (22)	16487	100	-56.5	9000	303	-48.2	9802	283	280	135						
	Helwan . . .	3198 (28)	694 (28)	-17.1 (28)	4100	621	-23.5	1440	851	-0.5	13549 (18)	165 (18)	-61.6 (18)	17430	84	-86.0	10140	261	-52.2	14840	130	295	165						
1200 U.T.	Aswan . . . (A)	4162 (31)	617 (31)	-17.6 (31)	4800	571	-23.4	3130	695	-12.5	16555 (2)	098 (2)	-77.2 (2)	16750	095	-78.9	16360	102	-75.4	12300	238	270	140						
	(N)	(N)	(N)											(N)	(N)	(N)													
	Merse Matruh (A)	3181 (28)	695 (28)	-18.5 (28)	4160	624	-22.1	920	910	-2.0	12003 (16)	208 (16)	-55.9 (16)	16520	101	-63.2	8890	326	-38.6	7370	397	210	100						
1800 U.T.	Helwan . . .	3610 (30)	602 (30)	-21.6 (30)	4730	583	-27.0	1480	857	-4.2	12421 (25)	202 (25)	-54.0 (25)	17480	87	-66.0	8840	317	-45.7	10870	244	276	165						
	Aswan . . . (A)	4460 (27)	598 (27)	-23.7 (26)	5100	551	-25.9	3660	654	-22.1	15538 (8)	120 (8)	-70.4 (8)	16643	100	-71.6	14630	137	-71.0	10050	280	210	140						

N = The Number of cases the element has been observed during the month.

Table B 3.—(contd.) NUMBER OF OCCURRENCES OF WIND DIRECTION WITHIN SPECIFIED RANGES AND THE MEAN SCALAR WIND SPEED AT THE STANDARD AND SELECTED PRESSURE SURFACES
MERSA MATRUH — MARCH 1975

Time	Pressure Surface (Millibar.)	Wind between ranges of direction (000—360°)												Number of calm winds	Total Number of Observations (T.N.)	Mean Scalar wind Speed (Knots)													
		345		015		045		075		105		135		165		195		225		255									
		N m	(ft) m	N m	(ft) m	N m	(ft) m	N m	(ft) m	N m	(ft) m	N m	(ft) m	N m	(ft) m	N m	(ft) m	N m	(ft) m	N m	(ft) m								
0000 T.U.	Surface	1	3	0	—	1	3	2	6	7	8	2	7	3	12	3	5	4	10	3	9	0	—	2	10	1	29	8	
	1000	1	7	1	4	0	—	7	14	4	14	2	13	2	22	1	13	1	20	2	11	4	16	0	—	1	19	15	
	850	1	6	0	—	1	4	1	16	3	12	1	39	1	5	2	18	5	21	7	23	5	16	2	12	0	—	18	
	700	0	—	0	—	1	3	0	—	0	—	1	9	2	21	3	20	6	29	7	25	6	26	1	16	9	—	29	
	600	0	—	0	—	1	3	0	—	0	—	0	—	1	12	3	23	9	33	8	34	6	29	1	17	0	—	30	
	500	0	—	0	—	0	—	0	—	0	—	0	—	2	22	4	2	4	39	9	34	4	49	0	—	0	—	37	
	400	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	37	7	49	6	47	1	50	6	—	9	—	51	
	300	0	—	0	—	0	—	0	—	0	—	0	—	0	—	4	79	3	57	2	46	0	—	0	—	0	—	6	
	250	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	60	0	—	3	64	0	—	0	—	0	—	4	
	200	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	81	0	—	0	—	0	—	0	—	81	
	150	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	100	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	70	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	60	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	50	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	40	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	30	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
1200 T.U.	Surface	4	8	3	10	1	12	6	12	0	—	1	20	0	—	0	—	4	15	1	20	2	18	6	16	0	—	28	14
	1000	2	6	3	9	3	18	3	10	1	6	1	22	0	—	2	12	2	27	4	25	5	19	2	11	0	—	28	16
	850	0	—	3	16	1	16	1	12	0	—	3	13	2	2	2	11	8	18	1	31	6	18	4	15	0	—	28	17
	700	1	14	1	16	0	—	1	14	0	—	0	—	1	13	7	28	4	26	7	27	2	14	3	16	0	—	27	23
	600	0	—	0	—	0	—	0	—	0	—	0	—	1	24	2	56	10	31	9	30	3	19	1	3	0	—	26	29
	500	0	—	0	—	0	—	0	—	0	—	0	—	1	84	3	30	8	32	9	43	2	22	0	—	0	—	23	37
	400	0	—	0	—	0	—	0	—	0	—	0	—	0	—	2	72	9	49	7	37	1	26	0	—	0	—	19	46
	300	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	3	52	0	—	0	—	0	—	3	52
	250	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	3	52	0	—	0	—	0	—	3	52
	200	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	150	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	100	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	70	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	60	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	50	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	40	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	30	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	

N=The number of cases the element has been observed during the month.

TN=The total number of cases the wind has been observed for all directions during the month.

Table B 3 (contd.)—NUMBER OF OCCURRENCES OF WIND DIRECTION WITHIN SPECIFIED RANGES AND THE MEAN SCALAR WIND SPEED AT THE STANDARD AND SELECTED PRESSURE SURFACES
HELWAN (A) — MARCH 1975

Time	Pressure Surface Millibar	Wind between ranges of direction (000—360) ^o														Number of calm winds	Total number of observations (N)	Mean scalar wind speed (Knots)
		345	015	045	075	105	135	165	195	225	255	285	315					
		(ff)	(ff)	(ff)	(ff)	(ff)	(ff)	(ff)	(ff)	(ff)	(ff)	(ff)	(ff)					
		N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	
		m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	
0000 U.T.	Surface	0	—	10	42	6	12	5	10	1	14	0	—	0	—	1	04	3
	1000e	0	—	6	13	6	14	1	22	0	—	0	—	0	—	1	11	0
	850	3	17	4	14	3	14	2	13	1	06	0	—	0	—	2	16	2
	700	4	11	1	24	1	33	1	29	0	—	0	—	0	—	1	09	4
	600	3	26	1	20	1	27	0	—	0	—	0	—	0	—	1	30	4
	500	3	23	2	29	0	—	0	—	0	—	0	—	0	—	1	23	3
	400	0	—	2	27	0	—	0	—	0	—	0	—	0	—	4	52	9
	300	1	46	1	36	0	—	0	—	0	—	0	—	0	—	1	64	10
	250	1	41	1	63	0	—	0	—	0	—	0	—	0	—	0	6	91
	200	1	58	0	—	0	—	0	—	0	—	0	—	0	—	0	3	191
	150	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	3	101
	100	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	70	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	60	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	50	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	40	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	30	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1800 U.T.	Surface	5	10	7	15	1	12	0	—	0	—	0	—	0	—	3	14	4
	1000	1	5	7	15	1	12	0	—	0	—	0	—	0	—	1	07	2
	850	3	11	2	19	3	19	4	21	3	95	1	05	0	—	2	23	4
	700	5	16	0	—	2	26	0	—	0	—	1	03	1	05	0	2	15
	600	2	27	2	29	1	03	0	—	0	—	0	—	0	—	3	34	5
	500	1	21	0	—	0	—	1	08	0	—	0	—	0	—	1	72	5
	400	1	34	0	—	1	06	0	—	0	—	0	—	0	—	1	31	10
	300	1	58	0	—	0	—	0	—	0	—	0	—	0	—	2	48	10
	250	0	—	1	08	0	—	0	—	0	—	0	—	0	—	1	138	10
	200	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	140	7
	150	0	—	0	—	0	—	0	—	0	—	0	—	0	—	2	10	2
	100	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	107	0
	70	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	60	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	50	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	40	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	30	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

N = The number of cases the wind has been observed from the range of direction during the month.

TN = The total number of cases the wind has been observed for all directions during the month.

Table B 3.—NUMBER OF OCCURRENCES F WIND DIRECTION WITHIN SPECIFIED RANGES AND THE MEAN SCALAR SCALAR WIND SPEED AT THE STANDARD AND SELECTED PRESSURE SURFACES ASWAN (A) — MARCH 1975

Time	Pressure Surface (Millibar.)	Wind between ranges of direction (000—360)															Number of Calm winds	Total number of Observations (TN)	Mean scalar wind speed (knots)									
		345		015		045		075		105		135		165		195		225		255		285		315				
		014	044	074	104	134	164	194	224	254	284	314	344	N	m	N	m	N	m	N	m	N	m	N	m			
000 U.T.	Surface	16	13	10	12	2	9	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	12	1	10	1	31	12
	1000	2	12	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	2	2	12
	850	7	16	5	14	8	13	1	3	1	8	0	—	0	—	1	8	0	—	0	—	2	28	5	16	30	30	15
	700	3	1	1	5	9	—	0	—	0	—	0	—	0	—	2	12	1	26	5	25	9	15	5	22	4	10	30
	600	1	12	0	—	0	—	0	—	0	—	0	—	0	—	3	16	5	41	13	30	7	27	1	18	30	29	29
	500	0	—	0	—	0	—	0	—	0	—	0	—	0	—	4	59	19	43	7	35	0	—	30	30	43		
	400	0	—	0	—	0	—	0	—	0	—	0	—	0	—	4	73	18	61	7	49	0	—	29	29	60		
	300	0	—	0	—	0	—	0	—	0	—	0	—	0	—	6	90	20	68	3	70	0	—	29	29	83		
	250	0	—	0	—	0	—	0	—	0	—	0	—	0	—	4	100	19	98	3	87	0	—	26	26	97		
	200	0	—	0	—	0	—	0	—	0	—	0	—	0	—	3	114	16	98	2	112	0	—	21	21	102		
	150	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	83	6	79	0	—	0	—	7	7	80		
	100	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0	—	0	—	0	—	0	—	0	—	—		
	70	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0	—	0	—	0	—	0	—	0	—	—		
	60	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0	—	0	—	0	—	0	—	0	—	—		
	50	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0	—	0	—	0	—	0	—	0	—	—		
	40	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0	—	0	—	0	—	0	—	0	—	—		
	30	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0	—	0	—	0	—	0	—	0	—	—		
	20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0	—	0	—	0	—	0	—	0	—	—		
	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0	—	0	—	0	—	0	—	0	—	—		
1200 T.U.	Surface	18	11	7	11	0	—	0	—	1	15	2	2	0	—	1	7	0	—	0	—	2	14	31	11			
	1000	1	17	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	17			
	850	5	12	9	11	6	13	1	9	0	—	1	12	0	—	2	16	1	9	0	—	6	15	31	12			
	700	0	—	1	7	1	11	3	8	0	—	0	—	1	3	0	—	4	17	5	29	9	15	29	15			
	600	1	15	0	—	0	—	0	—	0	—	0	—	0	—	0	—	6	29	15	28	4	25	0	26			
	500	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	30	1	41	2	32	0	—	25	27			
	400	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	6	71	13	57	3	49	0	22			
	300	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	4	93	14	86	3	83	0	21			
	250	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	3	100	16	95	1	115	0	20			
	200	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	50	12	99	2	94	0	—	15				
	150	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	7	83	2	94	0	—	07				
	100	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	2	35	3	49	0	—	05				
	70	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	25	—	—	0	—	01				
	60	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	—				
	50	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	—				
	40	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	—				
	30	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	—				
	20	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	—				
	10	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	—				

N= The number of cases the wind has been observed from the range of direction during the month.

TN= The total number of cases the wind has been observed during the month.

REVIEW OF AGRO - METEOROLOGICAL STATIONS

MERSA MATRUH — MARCH 1975

This month was rather normal as regards the mean daily air temperature and relative humidity. The total monthly rainfall was only 3.3 mm. against 11.7 mm. for normal.

A cold wave prevailed during the first three days yielding both the lowest maximum air temperature (15.0°C) on the 1st and the lowest minimum air temperature (6.0°C) on the 3rd.

The month was intervened by four light heat waves in the periods (9th & 10th), (20th — 22nd), 25th, (30th, & 31st). The second wave yielded the highest maximum air temperature (31.0°C) and also the highest minimum air temperature (15.3°C) on the 22nd. The heat waves were separated by mild periods.

The highest maximum soil temperatures were higher than last March at all depths except at 10 cm. where its value was the same as last March; the departures varied between 1.1°C (at both 2 & 5 cm.) and 0.2°C (at 50 cm.). The lowest minimum soil temperatures were lower than last March with departures between 0.2° and 0.9°C at all-depths except at 20 cm. where its value was the same as last March.

The mean daily actual sunshine duration was higher than normal by 1.4 hour. The mean daily wind speed at 1.5 met. height was slightly higher than the value for March 1974.

TAHIRR — MARCH 1975

The mean daily air temperature was slightly below average and the mean daily relative humidity was above average. The month was rainless apart from 1.3 mm. on the 1st, while the average monthly rainfall is 2.8 mm.

A cold wave prevailed from the 1st till the 5th, during which the lowest maximum air temperature for the month (17.0°C) was reported on the 1st and minimum air temperature at 5 cm. above grass field dropped to — 02°C, — 2.2° and — 1.4°C on the 3rd, 4th & 5th respectively.

The month was intervened by four variant heat waves in the periods (8th — 10th), (14th — 16th), (20th — 25th) and (30th, 31st). The third wave yielded the highest maximum air temperature for the month (35.4°C) and the lowest relative humidity (14%) on the 22nd. These heat waves were separated by mild periods.

The highest maximum soil temperatures were lower than average at depths between 2 & 10 cm. with departures between 2.0°C (at 2 cm.) and 0.4°C (at 10 cm.); and higher than average at depths between 20 & 100 cm. with slight departures (0.1° to 0.5°C). The lowest minimum soil temperatures were lower than average at all depths with departures between 2.8°C (at 10 cm.) and 0.8°C (at 100 cm.).

The mean daily actual sunshine duration was higher than average by 1.2 hour. The mean daily wind speed at 1.5 met. height and pan evaporation were lower than average by 0.5 met. / sec. and 1.07 mm.

BAITIM — MARCH 1975

The mean daily air temperature and relative humidity were nearly the same as average. The month was rainless while the average monthly rainfall is 2.8 mm.

A cold wave was experienced from the 1st till the 5th during which the lowest maximum air temperature for the month (16.6°C) was reported on the 1st, and minimum air temperature at 5 cm. height fell below 0°C in the following days :

Date	3	4	5
Min. air temperature at 5 cm. above dry field	— 1.2	— 1.5	
Date	3	4	5
Min. air temperature at 5 cm. above grass field	— 2.1	— 1.3	— 0.4

The month was intervened by four variant heat waves in the periods (8th & 9th), (14th — 16th), (21st — 23rd) and 31st. The third wave yielded the highest maximum air temperature for the month (35.0°C) together with the lowest relative humidity (10%) on the 22nd. These heat waves were separated by mild periods.

The highest maximum soil temperatures were higher than average at all depths with departures between 6.0°C (at 2 cm.) and 0.3°C (at 10 cm.). The lowest minimum soil temperatures were higher than average at depths between 2 & 20 cm. with departures between 2.4°C (at 5 cm.) and 0.2°C (at 20 cm.); but lower than average at 50 & 100 cm. depths by 0.1° C & 0.6°C respectively.

The mean daily wind speed at 1.5 met. height was the same as average. The mean daily actual sunshine duration and pan evaporation were higher than average by 1.5 hour and 0.50 mm.

KHARGA — MARCH 1975

The mean daily air temperature and relative humidity were nearly the same as average.

Weather during this month was characterized by a cold spell in the period (1st — 4th), a prolonged heat wave in the period (7th — 16th) and two short heat waves in the periods (21st — 23rd) & (30th, 31st). The cold wave yielded the lowest maximum air temperature for the month (18.4°C) on the 1st and the lowest minimum air temperature (2.6°C) on the 4th. The second heat wave yielded the highest maximum air temperature (36.8°C) on the 23rd. In the rest of the month, weather was mild..

The highest maximum soil temperatures were higher than average at all depths except at 50 cm. where its value was lower than average by 0.5°C; the departures varied between 3.0°C (at 5 cm.) and 0.3°C (at 100 cm.). The lowest minimum soil temperatures were lower than average at all depths except at 100 cm. where its value was the same as average; the departures varied between 1.0°C (at 2 cm.) and 2.8°C (at 10 cm.).

The mean daily actual sunshine duration was higher than average by 0.3 hour. The mean daily wind speed at 1.5 met. height and pan evaporation were lower than average by 0.5 met. / sec. and 0.81 mm.

**Table C 1.—AIR TEMPERATURE AT $1\frac{1}{2}$ METRES ABOVE GROUND
MARCH — 1975**

STATION	Air Temperature ($^{\circ}\text{C}$)					Mean Duration in hours of daily air temperature above the following value										
	Mean Max.	Mean Min.	Mean of the day	Night time mean	Day time mean	-5°C	0°C	5°C	10°C	15°C	20°C	25°C	30°C	35°C	40°C	45°C
Marsa Matruh . . .	20.9	9.4	14.7	12.0	17.2	24.0	24.0	24.0	20.5	11.0	2.2	0.4	0.03	0.0	0.0	0.0
Tahrir	25.7	7.2	15.8	11.3	20.2	24.0	24.0	23.7	19.2	11.6	6.1	2.1	0.6	0.0	0.0	0.0
Bahtim	24.4	6.4	15.1	10.4	19.7	24.0	24.0	23.4	17.2	10.8	5.5	1.7	0.5	0.0	0.0	0.0
Kharga	29.1	9.8	20.2	16.1	23.9	21.0	24.0	23.8	22.6	17.9	11.7	5.9	1.8	0.1	0.0	0.0

**Table C 2.—EXTREME VALUES OF AIR TEMPERATURE AT $1\frac{1}{2}$ METRES ABOVE GROUND,
ABSOLUTE MINIMUM AIR TEMPERATURE AT 5cms ABOVE GROUND OVER
DIFFERENT FIELDS.**

MARCH — 1975

STATION	Max. Temp. at $1\frac{1}{2}$ metres				Min. Temp. at $1\frac{1}{2}$ metres ($^{\circ}\text{C}$)				Min. Temp. at 5 cms. above			
	Highest		Lowest		Highest		Lowest		Dry soil		Grass	
	value	Date	value	Date	value	Date	value	Date	Value	Date	Value	Date
Marsa Matruh . . .	31.0	22	15.0	1	15.3	22	6.0	3	1.4	3	—	—
Tahrir	35.4	22	17.0	1	12.0	23	2.5	3	1.4	3	-2.2	4
Bahtim	35.0	22	16.6	1	11.8	23	2.2	3	-1.5	4	-2.1	3
Kharga	36.8	23	18.4	1	17.4	31	2.6	4	0.8	4	—	—

Table C 3.—(SOLAR + SKY) RADIATION, DURATION OF BRIGHT SUNSHINE, RELATIVE HUMIDITY, & VAPOUR PRESSURE AT $1\frac{1}{2}$ METRES ABOVE GROUND, EVAPORATION & RAINFALL.

MARCH — 1975

STATION	(Solar + Sky Radiation gm. cal/cm ²)	Duration of Bright Sunshine (hours)			Relative Humidity %			Vapour pressure (mms)				Evaporation (mms)		Rainfall (mms)					
		Total Actual monthly	Total Possible monthly	%	Mean of day	1200 U.T.	Lowest	Date	Mean of day	1200 U.T.	Highest	Date	Lowest	Date	Piche	Pan class A	Total Amount Monthly	Max. Fall in one day	Date
M. Matruh	414.1	288.7	371.0	78	61	47	11	25	7.5	7.8	12.7	15.22	2.5	25	5.4	—	3.3	2.0	1
Tahrir . .	535.9	303.0	371.1	82	68	43	14	21.22	8.6	9.0	12.9	31	4.7	21	5.2	6.15	1.3	1.3	1
Bahtim . .	508.8	303.9	371.1	82	64	36	10	22	7.7	7.6	12.8	31	3.6	23	6.2	6.88	0.0	—	—
Kharga . .	589.8	335.5	371.0	90	32	17	4	23	5.0	4.7	7.6	24	1.5	23	9.9	11.18	0.0	—	—

Table C 4.—EXTREME SOIL TEMPERATURE AT DIFFERENT DEPTHS (cms.) IN DIFFERENT FIELDS

MARCH — 1975

STATION	Highest (H) Lowest (L)	Extreme soil temperature (°C) at different depths (cms.) in dry field.								Extreme soil temperature (°C) at different depths (cms.) in grass field.							
		2	5	10	20	50	100	200	300	2	5	10	20	50	100	200	300
Mersa Matruh	H	30.4	29.5	24.2	21.1	19.0	18.2	18.8	—	—	—	—	—	—	—	—	—
	L	7.5	7.4	8.9	12.0	14.7	15.6	18.0	—	—	—	—	—	—	—	—	—
Tahrir . . .	H	38.4	33.4	29.1	25.2	22.3	20.8	20.5	21.1	25.5	23.7	22.8	21.0	18.9	18.6	19.0	—
	L	9.3	9.1	9.5	12.8	15.8	17.4	18.8	20.4	9.1	9.5	10.3	12.8	14.7	15.9	17.0	—
Bahtim . . .	H	46.9	34.8	27.1	23.1	21.6	21.4	22.2	23.7	24.4	22.0	20.7	18.6	17.5	17.4	18.5	—
	L	9.7	8.6	13.2	17.1	18.9	20.0	22.1	23.3	8.4	9.6	11.1	13.0	14.9	16.2	18.3	—
Kharga . . .	H	48.1	41.9	35.2	28.6	25.2	25.0	25.4	26.9	—	—	—	—	—	—	—	—
	L	6.8	9.9	12.5	17.8	21.2	23.0	24.6	26.5	—	—	—	—	—	—	—	—

Table C 5.—SURFACE WIND

MARCH — 1975

STATION	Wind Speed m/sec at 1½ metres			Days with surface wind speed at 10 metres								Max. Gust (knot) at 10 metres	
	Mean of the day	Night time mean	Day time mean	≥ 10 knots	> 15 knots	≥ 20 knots	≥ 25 knots	≥ 30 knots	≥ 35 knots	≥ 40 knots	Value knots		Date
Mersa Matruh	3.6	2.5	4.6	29	16	10	8	3	0	0	36	1.22	
Tahrir . . .	2.2	1.4	3.1	29	21	9	2	1	1	0	46	23	
Bahtim . . .	1.6	1.6	3.6	28	18	8	1	1	1	0	43	23	
Kharga . . .	2.9	2.0	3.7	27	16	5	1	0	0	0	33	23	

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PUBLICATIONS OF THE METEOROLOGICAL AUTHORITY OF THE ARAB REPUBLIC OF EGYPT—CAIRO

In fulfilment of its duties, the Egyptian Meteorological Authority issues several reports and publications on weather, climate and agro-meteorology. The principal publications are described on this page.

Orders for publications should be addressed to :

"Chairman of the Board of Directors, Meteorological Authority, Kubri-el-Qubbeh — CAIRO".

THE MONTHLY WEATHER REPORT

First issued in 1909, the Monthly Weather Report served to give a brief summary of the weather conditions that prevailed over Egypt during the month, with a table showing the mean values for few meteorological elements and their deviations from the normal values. From 1954 to 1957 this report was in a rapid state of development and extension resulting into a voluminous report on January 1958 giving surface, upper air, and agro-meteorological data for Egypt.

As from January 1964, the Monthly Weather Report was pressed to give climatological data for a representative selection of synoptic stations.

THE AGRO-METEOROLOGICAL ABRIDGED MONTHLY REPORT

Gives a review of weather experienced in the agro-meteorological stations of Egypt as well as monthly values of certain elements.

THE ANNUAL REPORT

This report gives annual values and statistics for the various meteorological elements, together with a summary of the weather conditions that prevailed during all months of the year.

CLIMATOLOGICAL NORMALS FOR EGYPT

A voluminous edition was issued in March 1968 which brings normals and mean values up till 1960.

METEOROLOGICAL RESEARCH BULLETIN

First issued in January 1969 on a bi-annual basis. It includes research works carried out by members of staff of "The Meteorological Institute for Research and Training" and the Operational Divisions of the Meteorological Authority.

TECHNICAL NOTES

As from October 1970, the Meteorological Authority started to issue a new series of publications in the form of Technical Notes (non periodical) on subjects related to studies and applications of meteorology in different fields for the benefit of personnel working in these fields.

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Note For explanatory notes on the tables please refer to Volume 18, Number 1 (January 1975).

GENERAL SUMMARY OF WEATHER CONDITIONS

APRIL 1975

Changeable weather : generally hot during the first half of the month, mild most of the second half.

PRESSURE DISTRIBUTION

- Five secondary desert depressions of light to moderate intensity passed through north Egypt on the 4th, 13th, 16th, 24th & 29th.
- A pronounced northward elongation of the Sudan trough prevailed during the period (6th — 8th).
- Relatively high pressure established in the rear of depressions.

SURFACE WIND

The prevailing winds were mostly light to moderate NE to NW lies. By the transit of khamsin waves, winds were generally W & SW fresh or strong at times.

TEMPERATURE

The first half of the month was characterized by successive heat waves, light or moderate. Accordingly maximum air temperatures persisted above normal most of this period.

During the second half, maximum air temperatures were generally below normal apart from three short heat waves.

Minimum air temperatures showed frequent deviations below and above normal in the Mediterranean district and were mostly above normal otherwise.

The highest and lowest maximum air temperatures were respectively 42.4°C at Aswan on the 25th & 17.6°C at Sidi Barrani on the 4th.

The highest and lowest minimum air temperatures were respectively 27.8°C at Aswan on the 11th & 5.6°C at Kom Ombo on the 22nd.

PRECIPITATION

Light to moderate rain fell over scattered places in north on the 16th, 17th and 18th.

Abnormal thundery rain of amount 9.0 mm. fell over Aswan on the 4th. This amount represents a record for both maximum daily rainfall and monthly rainfall at Aswan since 1935. It also represents the maximum daily rainfall reported during the month from all stations.

The maximum monthly rainfall reported was 12.9 mm. at Port Said.

OTHER WEATHER PHENOMENA

Rising sand occurred in association with the khamsin heat waves over scattered places mainly in the Western Desert and Upper Egypt.

Early morning mist developed during several days in scattered places in Delta and Cairo area.

Cairo, February 1977

Chairman (A. F. HASAN)

Board of Directors

**Table A 1.— MONTHLY VALUES OF THE ATMOSPHERIC PRESSURE, AIR TEMPERATURE,
RELATIVE HUMIDITY, BRIGHT SUNSHINE DURATION & PICHE EVAPORATION**

APRIL - 1975

STATION	Atmospheric Pressure (mbs) M.S.L		Air Temperature °C										Relative Humidity %			Bright Sunshine Duration (Hours)			Piche Evaporation mm. Mean.
			Maximum		Minimum		Dry Bulb		Wet Bulb							Total Actual	Total Possible	%	
	Mean	D.F. Normal or Average	(A) Mean	D.F. Normal or Average	(B) Mean	D.F. Normal or Average	A-B	Mean	D.F. Normal or Average	Mean	D.F. Normal or Average	Mean	D.F. Normal or Average	Total Actual	Total Possible	%			
Salqum	1012.8	-0.9	22.3	-0.4	14.3	+0.7	18.3	17.9	-0.2	13.9	+0.2	64	+8	261.6	387.9	68	6.1		
Mersa Matruh. (A)	1013.8	-0.6	21.6	+1.1	12.8	+0.8	17.4	17.1	+0.3	14.0	+0.4	73	+11	292.1	387.4	75	4.2		
Alexandria . . . (A)	1013.2	+1.0	24.6	+0.6	13.9	+0.4	19.2	18.7	+0.4	15.4	+0.8	70	+5	293.1	387.4	76	3.9		
Port Said . . . (A)	1011.9	+1.8	21.1	+1.5	16.3	+0.3	20.2	19.7	+0.9	16.2	+0.7	69	+4	—	—	—	3.8		
El Arish	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Ghazza	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Tanta	1011.7	+1.8	27.9	+0.2	11.2	+0.3	19.6	18.9	+0.1	15.0	+1.2	68	+14	311.7	386.9	81	4.3		
Cairo (A)	1011.9	+1.6	29.9	+1.6	15.7	+1.6	22.8	22.4	+1.5	15.5	+1.1	49	+4	—	—	—	13.7		
Fayoum	—	—	32.0	+2.2	13.4	+0.2	22.7	22.6	+0.8	15.5	+1.3	48	+7	—	—	—	7.9		
Minya (A)	1011.7	+1.1	32.9	+2.3	13.8	+1.8	23.4	23.5	+2.2	15.3	+1.4	42	+2	306.4	384.5	80	13.0		
Assyout. (A)	1011.3	+0.9	32.7	+1.0	15.7	+0.7	24.2	24.4	+0.8	13.6	+0.2	28	+3	—	—	—	17.7		
Luxor (A)	1009.4	+1.3	35.8	+1.2	17.6	+1.9	26.7	26.9	+1.2	16.1	+1.1	30	+4	—	—	—	11.8		
Aswan (A)	1009.1	+1.0	35.9	+0.9	20.3	+2.8	29.1	27.9	+0.2	15.8	+2.3	25	+12	—	—	—	21.2		
Siwa	1012.5	-0.8	31.1	+1.3	14.3	+1.9	22.7	22.7	+1.0	14.6	+1.5	42	+10	303.7	385.3	79	12.8		
Bahariya	1011.3	+1.5	32.5	+1.4	15.4	+2.5	24.0	24.0	+1.5	14.0	+0.8	30	+1	—	—	—	12.6		
Farafra	1012.3	+1.7	34.1	+2.9	16.0	+2.5	25.6	24.6	+1.9	13.7	+1.2	26	+1	—	—	—	15.4		
Dakhla	1011.2	+1.2	33.3	+0.6	18.8	+0.1	23.6	24.9	+1.3	14.2	+1.1	27	+7	—	—	—	16.8		
Kharga	1010.0	+1.2	35.4	+2.1	18.5	+2.9	27.0	27.7	+2.6	14.9	+1.6	25	+3	322.0	381.1	87	15.2		
Ter	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Hurgada	1009.8	+1.2	29.1	+2.5	20.0	+3.8	24.6	24.4	+1.1	17.5	+1.8	48	+1	310.9	383.4	81	9.5		
Quseir	1010.1	+1.1	27.4	+0.3	20.7	+1.3	24.0	24.1	+0.7	18.6	+2.0	57	+11	—	—	—	7.9		

Table A 2.—MAXIMUM AND MINIMUM AIR TEMPERATURES

APRIL — 1975

Station	Maximum Temperature °C								Grass Min. Temp.	Minimum Temperature °C									
	No. of Days with Max-Temp.				Mean	Dev. From Normal	Highest	Date		No. of Days with Min-Temp.				<10	<5	<0	<-5		
	Highest	Date	Lowest	Date						>25	>30	>35	>40	>45					
Salum	33.3	11	18.4	4	4	—	1	0	0	0	13.3	—	17.4	11	11.1	81	0	0	0
Mersa Matruh (A)	30.8	11	18.3	4	2	—	1	0	0	0	10.4	—	16.4	13	9.6	2	1	0	0
Alexandria (A)	32.4	12	20.5	29	10	3	0	0	0	0	10.4	—	16.0	9	9.2	11	1	0	0
Port Said (A)	28.5	12	20.9	21	7	0	0	0	0	0	15.9	—	18.7	13	13.7	18	0	0	0
El Arish	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Ghazza	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tanta	34.0	3	23.0	29	21	10	0	0	0	—	—	—	15.0	25	7.0	1	3	0	0
Cairo (A)	37.6	24	23.9	20	26	15	4	0	0	—	—	—	20.2	13	11.8	1	0	0	0
Fayoum	38.0	13	26.3	21	30	18	9	0	0	10.5	—	17.6	25	9.8	1	1	0	0	0
Minya (A)	38.8	12,23	26.4	22	30	22	9	0	0	11.3	—	20.2	25	9.4	1	1	0	0	0
Assyout (A)	38.0	14,29	25.3	19	30	21	11	0	0	15.8	—	21.2	25	10.2	1	0	0	0	0
Luxor (A)	41.1	30	29.5	19	30	29	19	1	0	10.4	—	27.0	17	11.4	1	0	0	0	0
Aswan (A)	42.4	25	29.0	19	30	29	13	5	0	—	—	27.8	11	15.8	1	0	0	0	0
Siwa	37.9	13	24.8	18	29	16	5	0	0	13.6	—	19.6	24	10.5	20	0	0	0	0
Bahariya	39.3	13	23.8	18	29	22	8	0	0	14.5	—	21.2	13	11.2	19	0	0	0	0
Farafra	41.2	24	25.0	18	29	24	14	1	0	14.7	—	21.4	16	11.7	28	0	0	0	0
Dakhla	—	—	—	—	—	—	—	—	0	—	—	—	—	—	—	—	0	0	0
Kharga	41.5	30	28.4	19	30	28	16	1	0	16.6	—	24.2	17	12.4	29	0	0	0	0
Tor	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hurghada	33.2	13	25.5	16	30	9	0	0	0	—	—	23.7	25	14.1	1	0	0	0	0
Quseir	31.2	29	25.0	22	29	2	0	0	0	17.8	—	23.0	14,15	17.7	2	0	0	0	0

Table A 3.—SKY COVER AND RAINFALL

APRIL — 1975

Station	Mean Sky Cover Oct.					Rainfall mms.										
	00	06	12	18	Daily	Total	Dev. From	Max. Fall in one day		Number of Days with Amount of Rain						
	U.T.	U.T.	U.T.	U.T.	Mean	Amount	Normal	Amount	Date	<0.1	≥0.1	≥1.0	≥5.0	≥10	≥25	≥50
Sallum	4.1	2.3	3.8	2.9	3.2	6.3	+ 3.7	4.0	16	0	2	2	0	0	0	0
Mersa Matruh . . . (A)	2.0	5.0	4.1	2.7	3.4	2.0	+ 0.3	1.4	16	0	3	1	0	0	0	0
Alexandria (A)	1.0	2.8	4.2	3.1	2.8	0.2	+ 2.7	0.2	16	0	1	0	0	0	0	0
Port Said (A)	1.2	1.7	2.5	1.5	1.9	12.9	+ 10.2	6.2	17	0	3	3	1	0	0	0
El Arish	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Ghazza	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tanta	0.7	1.4	3.4	0.8	1.7	6.5	+ 4.5	3.4	16	0	2	2	0	0	0	0
Cairo (A)	0.9	2.4	3.5	1.8	2.2	2.7	+ 1.8	2.7	16	0	1	1	0	0	0	0
Fayoum	—	0.2	1.6	2.9	—	1.2	+ 0.6	1.2	16	0	1	1	0	0	0	0
Minya (A)	0.8	1.7	2.3	1.7	1.6	Tr.	+ 0.4	Tr.	16	1	0	0	0	0	0	0
Assyout (A)	0.5	1.2	1.2	1.0	1.0	0.0	+ 0.1	0.0	—	0	0	0	0	0	0	0
Luxor (A)	1.2	2.1	2.0	2.0	1.9	Tr.	+ 0.0	Tr.	4.5	2	0	0	0	0	0	0
Aswan (A)	0.4	1.1	2.0	1.1	1.0	9.0	+ 8.3	9.0	4	0	1	1	1	0	0	0
Siwa	2.6	2.8	3.0	3.0	2.9	1.0	0.0	1.6	17	0	1	1	0	0	0	0
Bahariya	1.0	1.5	2.3	1.6	1.7	0.0	+ 0.5	0.0	—	0	0	0	0	0	0	0
Farafra	—	1.5	2.5	1.4	—	0.0	+ 0.5	0.0	—	0	0	0	0	0	0	0
Dakhla	0.2	0.6	1.0	0.9	0.6	0.0	+ 0.2	0.0	—	0	0	0	0	0	0	0
Kharga	0.5	1.1	1.1	0.9	1.0	0.0	+ Tr.	0.0	—	0	0	0	0	0	0	0
Tor	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hurghada	1.0	2.5	2.2	1.9	2.0	Tr.	+ 0.1	Tr.	17	1	0	0	0	0	0	0
Quseir	0.9	2.6	2.3	1.5	1.9	0.0	+ 0.1	0.0	—	0	0	0	0	0	0	0

Table A 4.— DAYS OF OCCURRENCE OF MISCELLANEOUS WEATHER PHENOMENA

APRIL — 1975

Station	Precipitation				Frost	Thunderstorm	Mist Vis ≥ 1000 metres	Fog Vis < 1000 Metres	Haze Vis ≥ 1000 Metres	Thick Haze Vis < 1000 Metres	Dust or Sandrising Vis ≥ 1000 Metres	Dust or Sandstorm Vis < 1000 Metres	Gale	Clear Sky	Cloudy Sky	
	Rain	Snow	Ice Pellets	Hail												
Sallum	2	0	0	0	0	0	0	0	0	0	0	0	0	0	7	0
Mersa Matruh (A)	3	0	0	0	0	0	1	0	6	0	0	9	0	0	6	0
Alexandria (A)	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0
Port Said (A)	3	0	0	0	0	0	—	—	—	—	—	—	0	0	13	0
Al Arish	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Ghazza	—	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tanta	2	0	0	0	0	0	7	1	0	0	0	0	0	0	18	0
Cairo (A)	1	0	0	0	0	0	9	2	5	6	4	0	0	0	12	0
Fayoum	1	0	0	0	0	0	0	0	0	0	0	0	0	0	—	0
Minya (A)	0	0	0	0	0	0	0	0	10	0	0	0	0	0	16	0
Assyout (A)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23	0
Luxor (A)	0	0	0	0	0	0	0	0	17	0	0	14	0	0	15	1
Aswan (A)	1	0	0	0	0	0	0	0	3	0	0	15	2	2	23	0
Siwa	1	0	0	0	0	0	0	0	0	0	14	0	0	0	9	2
Beshariya	0	0	0	0	0	0	0	0	0	0	4	1	0	0	18	1
Farafra	0	0	0	0	0	0	0	0	0	0	6	1	0	0	—	0
Dakhala	0	0	0	0	0	0	0	0	0	0	3	0	0	0	27	0
Kharga	0	0	0	0	0	0	0	0	0	0	5	0	0	0	23	0
Tor	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hurghada	0	0	0	0	0	0	0	0	3	0	18	0	0	0	18	1
Quseir	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18	0

Table A 5.—NUMBER IN HOURS OF OCCURRENCES OF CONCURRENT SURFACE WIND SPEED AND DIRECTION RECORDED WITHIN SPECIFIED RANGES

APRIL 1975

Station	Calm (hours)	Variable (hours)	Unrecorded (hours)	Wind speed in knots	Number in hours of occurrences of wind blowing from the ranges of directions indicated												
					345	015	045	075	105	135	165	195	225	255	285	315	All directions
					/	/	/	/	/	/	/	/	/	/	/	/	/
Sallum . . .	18	10	4	1—10	70	109	72	48	40	13	6	4	5	39	64	72	542
				11—27	8	14	37	17	4	0	0	0	1	14	16	35	146
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	78	123	109	65	44	13	6	4	6	53	80	103	688
Mersa Matruh . . .	2	2	6	1—10	42	42	23	45	49	33	12	6	18	62	46	110	491
				11—27	15	34	28	5	9	0	1	3	4	11	38	61	219
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	57	86	54	59	58	33	13	9	22	23	84	171	710
Alexandria . . .	1	0	8	1—10	119	61	32	31	28	6	11	12	5	14	72	157	548
				11—27	46	21	1	6	0	0	0	1	5	9	38	36	163
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	165	82	33	37	28	6	11	13	10	23	110	193	711
Cairo . . . (A)	88	16	0	1—10	60	81	38	28	5	4	4	6	25	46	63	62	422
				11—27	39	45	14	14	8	1	5	5	14	12	6	31	194
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	99	126	52	42	13	5	9	11	39	58	63	93	616
Fayoum . . .	3	1	11	1—10	213	210	25	17	17	17	22	18	23	25	52	41	680
				11—27	0	8	0	0	0	0	6	1	5	2	0	3	25
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	213	218	25	17	17	17	28	19	28	27	52	44	703
Minya . . . (A)	23	9	0	1—10	182	57	11	6	0	22	17	11	6	21	24	59	434
				11—27	108	80	0	1	1	3	12	1	2	4	11	31	254
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	290	155	11	7	1	25	29	12	6	25	35	90	688
Asyout . . .	20	0	2	1—10	92	60	19	12	25	19	13	13	18	23	40	115	449
				11—27	67	11	2	3	4	12	13	12	1	13	34	75	247
				28—47	1	0	0	0	0	0	0	0	0	0	0	1	2
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	160	71	21	15	29	31	26	25	19	36	74	191	698
Luxor . . . (A)	103	0	2	1—10	64	85	48	29	7	15	33	26	26	27	82	53	495
				11—27	14	18	33	14	0	0	4	1	0	0	15	21	120
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	78	103	81	43	7	15	37	27	26	27	27	74	615

Table A 5.—NUMBER IN HOURS OF OCCURRENCES OF CONCURRENT SURFACE
WIND SPEED AND DIRECTION RECORDED WITHIN SPECIFIED RANGES

APRIL — 1975

Station	Calm (hours)	Variable (hours)	Unrecorded (hours)	Wind speed in knots	Number in hours of occurrences of wind blowing from the ranges of directions indicated													All directions
					345	0-5	845	075	105	135	165	195	225	255	285	315	/	
					014	044	074	104	134	164	194	224	254	284	314	344	/	
<i>Aswan</i> . . . (A)	0	0	8	1-10	218	100	23	18	14	8	16	13	4	12	9	70	505	
				11-27	80	31	23	13	5	1	6	2	1	4	10	30	206	
				28-47	0	1	0	0	0	0	0	0	0	0	0	0	1	
				≥ 48	0	0	0	0	0	0	0	0	0	0	0	0	0	
				All speeds	298	132	46	31	19	9	22	15	5	16	19	100	712	
<i>Siwa</i>	29	1	9	1-10	20	66	57	96	59	32	9	4	8	31	57	36	477	
				11-27	0	34	30	45	20	2	10	6	1	2	43	13	204	
				28-47	0	0	0	0	0	0	0	0	0	0	0	0	0	
				≥ 48	0	0	0	0	0	0	0	0	0	0	0	0	0	
				All speeds	20	100	87	141	79	34	19	10	9	33	100	49	681	
<i>Dakha</i>	3	3	5	1-10	55	22	47	49	41	35	41	37	35	43	84	113	602	
				11-27	21	9.	2	0	1	1	5	6	3	5	15	39	107	
				28-47	0	0	0	0	0	0	0	0	0	0	0	0	0	
				≥ 48	0	0	0	0	0	0	0	0	0	0	0	0	0	
				All speeds	76	31	49	49	42	36	46	43	38	48	99	152	709	
<i>Kharga</i>	3	5	2	1-10	196	95	52	18	18	12	22	4	2	8	34	76	237	
				11-27	99	23	15	0	5	0	3	0	6	0	9	24	173	
				28-47	8	0	0	0	0	0	0	0	0	0	0	0	0	
				≥ 48	0	0	0	0	0	0	0	0	0	0	0	0	0	
				All speeds	295	118	67	18	18	12	25	4	2	8	43	100	710	
<i>Hurghada</i>	5	2	1	1-10	33	44	28	26	36	40	11	6	6	21	137	51	439	
				11-27	56	18	5	3	1	12	0	6	0	0	46	132	273	
				28-47	0	0	0	0	0	0	0	0	0	0	0	0	0	
				≥ 48	0	0	0	0	0	0	0	0	0	0	0	0	0	
				All speeds	89	62	33	29	37	52	11	6	6	21	183	183	112	
<i>Guseir</i>	1	0	16	1-10	78	41	13	13	30	36	22	12	18	57	106	89	515	
				11-27	60	6	0	1	3	0	0	0	0	0	01	108	188	
				28-47	0	0	0	0	0	0	0	0	0	0	0	0	0	
				≥ 48	0	0	0	0	0	0	0	0	0	0	0	0	0	
				All speeds	138	47	13	14	33	36	22	12	18	57	116	197	703	
<i>Cansel</i>	1	3	2	1-10	78	42	16	15	30	37	22	12	19	57	105	89	522	
				11-27	61	6	0	1	3	0	0	0	0	0	10	111	192	
				28-47	0	0	0	0	0	0	0	0	0	0	0	0	0	
				≥ 48	0	0	0	0	0	0	0	0	0	0	0	0	0	
				All speeds	139	48	16	16	33	37	23	12	19	57	115	200	714	

UPPER AIR CLIMATOLOGICAL DATA

**Table B 1. MONTHLY MEANS AND MONTHLY ABSOLUTE HIGHER, LOWER
VALUES OF ALTITUDE, AIR TEMPERATURE & DEW POINT AT
STANDARD AND SELECTED PRESSURE SURFACES**

APRIL—1975

Station	Pressure Surface (Millibar)	Altitude of Pressure Surface (gpm)				Temperature (°C)				Dew Point (°C)	
		N	Mean	Highest	Lowest	N	Moan	Highest	Lowest	N	Mean
Marsa Matruh 0000 T.U.	Surface	14	1009mb.	1013mb.	1006mb.	14	15.8	18.0	14.0	14	9.7
	1000	14	107	137	76	14	14.7	16.8	13.5	14	9.1
	850	14	1465	1498	1424	14	8.6	16.0	3.0	14	— 5.8
	700	14	3049	3105	2968	14	2.1	10.1	=6.5	14	— 16.2
	600	14	4264	4311	4158	14	— 7.0	— 2.3	— 14.1	14	— 21.1
	500	12	5671	5757	5514	12	— 17.4	— 11.5	— 25.7	12	— 34.0
	400	12	7305	7418	7094	12	— 28.9	— 23.7	— 37.9	12	— 42.8
	300	12	9305	9149	9050	12	— 42.5	— 38.2	— 45.5	12	— 55.2
	250	12	10518	10676	10270	12	— 49.4	— 45.8	— 53.5	12	— 61.6
	200	12	11981	12129	11748	12	— 51.9	— 48.3	— 61.4	8	— 65.5
	150	12	13782	13962	13708	12	— 59.4	— 51.1	— 65.7	6	— 66.9
	100	9	16336	16556	16192	9	— 63.0	— 58.9	— 67.6	—	—
	70	9	18530	18786	18398	9	— 63.2	— 59.9	— 72.2	—	—
	60	9	19396	19730	19320	9	— 61.3	— 58.4	— 65.0	—	—
	50	9	20617	20900	20488	9	— 59.9	— 56.8	— 63.3	—	—
	40	8	22095	22409	21900	8	— 58.2	— 55.0	— 61.0	—	—
	30	7	23854	24170	23688	7	— 55.8	— 52.8	— 58.3	—	—
	20	2	26552	26888	26515	2	— 53.5	— 52.0	— 55.0	—	—
	10	—	—	—	—	—	—	—	—	—	—
Helwan 0000 U.T.	Surface	30	* 996mb.	* 1002mb.	* 987mb.	30	19.0	27.8	13.8	30	6.8
	1000	30	101	159	631	1	19.6	19.6	19.6	1	2.7
	850	30	1492	1557	1434	30	14.9	23.5	06.6	30	— 1.8
	700	30	3104	3205	3030	30	4.4	12.3	— 2.8	30	— 11.2
	600	30	4342	4458	4224	30	— 4.0	— 0.8	— 9.1	30	— 17.1
	500	30	5757	5889	5620	30	— 13.3	— 10.4	— 17.2	30	— 25.1
	400	30	7414	7586	7258	30	— 25.7	— 23.4	— 30.8	30	— 30.0
	300	30	9442	9634	9328	30	— 40.6	— 37.7	— 44.0	30	— 50.8
	250	30	10395	10864	10469	30	— 48.9	— 43.6	— 51.7	30	— 58.3
	200	30	12111	12311	11934	30	— 54.3	— 48.2	— 58.2	30	— 63.3
	150	27	13945	14133	13820	27	— 57.6	— 52.9	— 62.4	19	— 66.9
	100	26	16172	1666.9	16327	26	— 64.6	— 60.9	— 70.5	—	—
	70	21	18634	18788	18544	21	— 66.3	— 60.7	— 70.8	—	—
	60	17	19611	19730	19520	17	— 64.6	— 58.0	— 68.7	—	—
	50	17	20697	20834	20580	17	— 63.2	— 56.9	— 69.0	—	—
	40	13	22113	22420	21850	13	— 60.8	— 57.1	— 63.1	—	—
	30	12	23893	24014	23760	12	— 57.9	— 55.1	— 61.5	—	—
	20	11	26465	26527	26305	11	— 53.8	— 50.1	— 55.9	—	—
	10	2	30913	30942	30884	2	— 48.2	— 48.0	— 48.4	—	—
Aswan 0000 U.T.	Surace	30	* 988mb.	* 992mb.	* 976mb.	30	23.1	29.5	19.0	30	4.5
	1000	30	87	124	32	—	—	—	—	—	—
	850	30	1497	1536	1480	30	18.0	23.0	12.4	30	— 5.8
	700	29	3126	3157	3087	29	6.8	10.4	1.1	29	— 8.9
	600	29	4375	4413	4312	29	— 1.2	2.0	— 9.4	28	— 16.5
	500	29	5803	5849	5705	28	— 11.2	— 7.4	— 18.5	28	— 24.9
	400	29	7479	7547	7352	29	— 22.8	— 19.2	— 27.9	29	— 35.7
	300	29	9525	9618	9386	29	— 38.5	— 32.6	— 45.2	28	— 48.7
	250	29	10756	10869	10611	29	— 47.0	— 40.5	— 57.0	27	— 66.3
	200	25	12213	12330	12071	25	— 54.5	— 48.3	— 58.0	23	— 63.2
	150	22	14018	14130	13915	22	— 63.1	— 56.3	— 67.4	5	— 68.5
	100	19	16462	16569	16376	19	— 71.6	— 64.3	— 75.5	—	—
	70	6	18537	18584	18476	6	— 71.3	— 63.1	— 79.5	—	—
	60	3	19503	19650	19440	3	— 65.1	— 60.8	— 67.6	—	—
	50	3	20619	20674	20587	3	— 62.9	— 60.0	— 64.8	—	—
	40	—	—	—	—	—	—	—	—	—	—
	30	—	—	—	—	—	—	—	—	—	—
	20	—	—	—	—	—	—	—	—	—	—
	10	—	—	—	—	—	—	—	—	—	—

* = The number of cases the element has been observed during the month.

The atmospheric pressure corrected to the elevation of the radiosonde station.

UPPER AIR CLIMATOLOGICAL DATA

**Table B 1 —MONTHLY MERNS AND MONTHLY ABSOLUTE HIGHER & LOWER
VALUES OF ALTITUDE, AIR TEMPERATURE & DEW POINT AT
STANDARD AND SELECTED PRESSURE SURFACES**

APRIL — 1975

Station	Pressure Surface (Millibar)	Altitude of Pressure Surface (gpm)				Temperature (°C)				Dew Point (°C)	
		N	Mean	Highest	Lowest	N	Mean	Highest	Lowest	N	Mean
Mers Matruh 1200 U.T.	Surface	11	1009 *mb.	1012mb.	1000mb.	11	19.7	21.1	15.4	11	11.6
	1000	11	108	132	80	11	18.4	21.8	11.6	11	10.2
	850	11	1475	1508	1437	11	10.2	15.7	7.0	11	-7.0
	700	11	3066	3125	3005	11	2.1	7.4	-3.9	11	-16.8
	600	10	4294	4367	4223	10	-4.6	-0.7	-10.1	10	-21.8
	500	9	5707	5796	524	9	-13.7	-6.4	-16.8	9	-31.5
	400	8	7364	7471	7260	8	-26.2	-21.3	-29.0	8	-40.5
	300	8	9382	9531	9250	8	-40.7	-36.2	-44.9	8	-54.0
	250	8	10600	10770	10446	8	-48.1	-42.7	-53.3	8	-61.0
	200	8	12053	12248	11874	8	-52.8	-49.1	-58.8	7	-65.0
	150	8	13897	14116	13706	8	-56.2	-54.0	-59.5	5	-68.9
	100	6	16448	16681	16288	6	-59.7	-53.7	-67.4	—	—
	70	6	18684	18943	18510	6	-58.9	-51.3	-69.3	—	—
	60	5	19696	19980	19160	5	-56.8	-50.4	-62.8	—	—
	50	4	20894	21114	20796	4	-52.8	-49.9	-57.1	—	—
	40	1	22370	—	—	1	-18.2	—	—	—	—
	30	1	24106	—	—	1	-46.8	—	—	—	—
	20	—	—	—	—	—	—	—	—	—	—
	10	—	—	—	—	—	—	—	—	—	—
Helwan 1200 U.T.	Surface	30	995mb.	1000mb.	986mb.	30	28.8	36.2	22.6	30	5.9
	1000	30	093	140	017	1	31.2	31.2	31.2	1	-4.7
	850	30	1506	1561	1438	30	17.1	26.2	07.1	30	-2.5
	700	30	3132	2254	3050	30	6.4	12.9	0.2	30	-12.5
	600	30	4346	4530	4285	30	-1.7	+ 2.2	-5.7	30	-18.4
	500	30	5810	5979	5698	30	-11.3	-6.7	-16.5	30	-29.5
	400	30	7483	7688	7358	30	-22.9	-18.6	-28.3	30	-30.4
	300	30	9535	9771	9351	30	-37.1	-32.4	-42.9	30	-48.9
	250	30	10774	11021	10647	30	-45.2	-38.6	-50.0	30	-56.3
	200	30	12244	12490	12031	30	-51.1	-42.8	-58.0	30	-61.7
	150	30	14107	14356	13872	30	-53.6	-46.6	-59.4	28	-63.9
	100	28	16694	16964	16502	28	-59.7	-49.8	-64.0	9	-67.5
	70	25	18961	19842	18710	25	-50.9	-45.8	-65.6	—	—
	60	23	19942	20260	19670	23	-57.1	-47.4	-64.9	—	—
	50	23	21073	21335	20774	23	-53.4	-42.8	-62.8	—	—
	40	17	22618	23000	22280	17	-50.3	-43.1	-57.7	—	—
	30	16	24425	24577	24016	16	-44.4	-37.1	-51.1	—	—
	20	8	27162	27705	26666	8	-36.3	-27.6	-49.7	—	—
	10	1	32176	—	—	1	-21.5	—	—	—	—
Aswan 1200 U.T.	Surface	24	987mb.	991mb.	980mb.	24	34.3	38.7	29.5	24	2.9
	1000	24	76	113	008	—	—	—	—	—	—
	850	24	1509	1553	1429	24	20.7	26.0	14.7	24	-5.9
	700	23	3151	3220	3118	23	8.7	12.5	4.8	23	-15.6
	600	21	4403	4434	4360	21	0.5	4.0	-5.8	21	-22.9
	500	21	5839	5889	5764	20	-9.6	-6.3	-15.7	20	-31.4
	400	21	7527	7591	7409	20	-21.4	-19.0	-28.3	19	-41.6
	300	19	9588	9672	9445	19	-36.1	-32.0	-40.4	19	-53.9
	250	18	10339	10929	10754	18	-44.9	-38.5	-49.0	18	-61.0
	200	17	12306	12400	12205	17	-53.2	-48.6	-55.8	17	-67.7
	150	16	14127	14221	14048	16	-61.8	-53.2	-66.0	3	-69.0
	100	14	16582	16646	16496	14	-71.6	-67.4	-76.7	—	—
	70	10	18696	18762	18647	10	-72.3	-68.5	-75.8	—	—
	60	4	19650	19700	19580	4	-68.6	-63.6	-71.6	—	—
	50	4	20726	20792	20647	4	-61.5	-58.3	-64.2	—	—
	40	4	22205	22300	22100	4	-55.4	-53.0	-58.2	—	—
	30	4	23979	24072	23875	4	-52.2	-49.6	-55.3	—	—
	20	2	26278	26630	26526	2	-47.4	-46.1	-48.8	—	—
	10	—	—	—	—	—	—	—	—	—	—

N— The number of cases the element has been observed during the month.

* The atmospheric pressure corrected to the elevation of the radiosonde station.

Table B 2.—MEAN AND EXTREME VALUES OF THE FREEZING LEVEL AND THE TROPOPAUSE.

THE HIGHEST WIND SPEED IN THE UPPER AIR

APRIL — 1975

Station	Freezing level									First tropopause									Highest wind speed				
	Mean			Highest			Lowest			Mean			Highest			Lowest			Altitude (gpm)	Pressure (mb.)	Direction (000—300)°	Speed in knots	
	Altitude (gpm)	Pressure (mb.)	Dew point (°C)	Altitude (gpm)	Pressure (mb.)	Dew point (°C)	Altitude (gpm)	Pressure (mb.)	Dew point (°C)	Altitude (gpm)	Pressure (mb.)	Temperature (°C)	Altitude (gpm)	Pressure (mb.)	Temperature (°C)	Altitude (gpm)	Pressure (mb.)	Temperature (°C)					
0000 U.T.	(N)	(N)	(N)							(N)	(N)	(N)											
	M. Matruh (A)	3061 (14)	701 (14)	-13.0 (14)	4000	626	-7.2	1780	823	-5.2	13142 (9)	181 (9)	-59.8 (9)	16920	91	-89.5	7400	384	-40.4	6393	—	265	100
	Helwan . . .	3715 (30)	641 (30)	-13.0 (30)	4140	618	-19.7	3160	691	-10.7	12541 (26)	193 (26)	-57.5 (26)	16490	099	-70.8	10623	250	-47.1	9520	295	020	145
Aswan . . .																							
		4194 (29)	618 (29)	-14.9 (29)	4720	577	-16.3	3200	690	-6.4	15898 (4)	111 (4)	-72.2 (4)	17010	090	-73.8	14640	136	-68.3	11700	219	275	110
1200 U.T.																							
	M. Matruh (A)	3373 (10)	676 (10)	-19.0 (10)	4200	610	-23.5	2400	757	-8.2	12826 (7)	188 (7)	-56.5 (7)	16400	102	-67.9	9550	294	-40.9	11440	218	250	105
	Helwan . . .	4091 (30)	624 (30)	-16.9 (30)	4980	570	-21.5	3120	697	-20.2	12545 (29)	191 (29)	-54.4 (29)	16290	196	-65.0	10780	247	-50.2	7040	417	290	146
Aswan . . . (A)																							
		4500 (21)	594 (21)	-23.4 (21)	5070	555	-28.0	3780	646	-17.2	17172 (4)	094 (4)	-74.5 (4)	18880	068	-76.7	15380	124	-71.3	13100	—	310	120

N = The number of cases this element has been observed during the month.

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Table B3.— NUMBER OF OCCURRENCES OF WIND DIRECTION WITHIN SPECIFIED RANGES AND THE MEAN SCALAR WIND SPEED AT THE STANDARD AND SELECTED PRESSURE SURFACES
MERSA MATRUH (A) — APRIL 1975

Time	Pressure Surface (Millibar)	Wind between specified ranges of direction (000--360) ^a														Number of Calm winds	Total Number of Observations (TN)	Mean Scalar wind speed (knots)								
		315 / 014		015 / 044		045 / 074		075 / 104		105 / 134		135 / 164		165 / 194		195 / 224		225 / 254		255 / 284						
		N	(ft)	N	(ft)	N	(ft)	N	(ft)	N	(ft)	N	(ft)	N	(ft)	N	(ft)	N	(ft)	N	(ft)					
0000 U.T.	Surface	2	12	0	—	3	6	2	11	0	—	0	—	2	8	0	—	2	6	1	7	2	10	0	14	9
	1000	1	5	0	—	1	7	2	10	1	11	1	9	0	—	1	20	1	6	2	16	1	11	0	12	11
	850	1	61	1	6	1	19	0	—	1	7	0	—	0	—	0	—	2	24	3	19	3	15	0	0	17
	700	0	—	0	—	0	—	0	—	1	25	0	—	0	—	0	—	4	32	3	23	2	26	1	13	0
	600	0	—	0	—	0	—	0	—	0	—	0	—	1	35	5	38	3	42	1	53	1	19	0	0	27
	500	0	—	0	—	0	—	0	—	0	—	0	—	1	35	2	50	3	58	1	36	0	—	0	0	39
	400	0	—	0	—	0	—	0	—	0	—	0	—	0	—	3	51	1	53	0	0	—	0	0	49	
	300	—	—	0	—	0	—	0	—	0	—	0	—	—	—	—	—	—	—	—	—	—	—	—	52	
	250	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	200	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	150	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	150	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	70	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	60	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	50	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	40	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	30	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
1200 U.T.	Surface	2	16	2	15	1	12	0	—	0	—	0	—	0	—	0	—	0	—	4	16	2	10	0	11	15
	1000	2	10	1	20	0	—	0	—	1	30	0	—	0	—	0	—	2	16	2	10	3	15	0	11	14
	850	0	—	0	—	0	—	1	—	0	—	0	—	0	—	3	16	4	18	2	14	1	15	0	11	30
	700	0	—	0	—	0	—	0	—	0	—	0	—	1	20	3	31	5	32	2	30	0	—	0	11	34
	600	0	—	0	—	0	—	0	—	0	—	0	—	0	—	3	35	4	30	1	44	0	—	0	8	47
	500	0	—	0	—	0	—	0	—	0	—	0	—	1	62	3	40	2	56	1	37	0	—	0	4	62
	400	0	—	0	—	0	—	0	—	0	—	0	—	0	—	2	70	2	53	0	—	0	—	0	1	71
	300	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	71	0	—	0	1	58
	250	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	58	0	—	0	—	0	—	0	1	89
	200	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	89	0	—	0	—	0	1	89
	150	0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	100	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	70	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	60	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	50	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	40	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	30	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	

N = The number of cases the element has been observed during the month.

TN = The total number of cases the wind has been observed for all directions during the month.

Table B 3. (contd.)— OF OCCURRENCES OF WIND DIRECTION WITHIN SPECIFIED RANGES AND THE MEAN SCALAR WIND SPEED AT THE STANDARD AND SELECTED PRESSURE SURFACES

HELWAN — APRIL 1975

Time	Pressure Surface (Millibar)	Wind between specified ranges of direction (000—360)°														Number of Calm winds	Total Number of Observations (TN)	Mean Scalar wind Speed (Knots)								
		345		015		045		075		105		135		165		195		225		255		285				
		/	014	/	044	/	074	/	104	/	134	/	164	/	194	/	224	/	254	/	284	/	314	/	344	
0000 U.T.	Surface	7	07	6	11	7	09	1	03	3	11	1	10	0	—	0	—	1	07	0	—	4	05	—	30	08
	1000	0	—	0	—	1	17	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	01	17	
	850	1	11	3	13	5	14	3	09	2	10	2	09	0	—	1	22	1	30	1	28	6	15	5	15	
	700	1	22	2	12	4	20	1	06	1	07	0	—	2	06	1	05	2	32	3	39	8	36	5	36	
	600	2	13	5	21	3	15	0	—	0	—	0	—	0	—	0	—	1	07	6	44	7	39	—	30	
	500	2	24	5	27	1	18	0	—	0	—	0	—	0	—	0	—	3	43	3	29	6	54	8	39	
	400	6	28	3	19	0	—	0	—	0	—	0	—	0	—	0	—	1	06	2	21	8	50	4	72	
	300	3	40	4	66	0	—	0	—	0	—	0	—	0	—	0	—	0	—	2	20	6	67	6	57	
	250	3	45	2	78	0	—	0	—	0	—	0	—	0	—	0	—	0	—	2	30	4	27	5	109	
	200	3	69	0	—	1	29	0	—	0	—	0	—	0	—	0	—	0	—	2	42	4	50	—	16	
	160	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	5	56	5	68	—	10	
	100	1	60	0	—	0	—	0	—	0	—	0	—	0	—	0	—	2	38	3	47	1	49	—	7	
	70	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	37	1	19	2	39	—	4	
	60	1	54	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	27	1	11	1	34	—	4	
	50	2	14	1	16	0	—	0	—	0	—	0	—	0	—	1	40	0	—	0	—	0	—	—	21	
	40	0	—	1	40	0	—	0	—	0	—	0	—	0	—	1	13	0	—	1	19	1	28	—	4	
	30	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	35	1	35	1	09	0	—	—	3	
	20	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	2	24	0	—	—	0	—	2	
	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
1200 U.T.	Surface	5	12	4	11	1	05	0	—	0	—	1	08	0	—	0	—	3	08	6	08	1	05	9	10	
	1000	0	—	0	—	1	05	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	01	5	
	850	3	07	3	06	4	15	5	09	1	11	0	—	1	24	1	09	1	07	3	23	2	13	6	15	
	700	2	14	0	—	5	24	2	10	2	14	1	03	2	06	0	—	1	31	3	37	5	29	7	25	
	600	1	09	7	24	1	05	1	04	0	—	2	07	0	—	0	—	6	38	6	41	6	37	—	30	
	500	0	—	7	25	0	—	0	—	0	—	0	—	0	—	1	23	2	13	5	52	6	61	9	34	
	400	1	20	3	49	0	—	0	—	0	—	0	—	0	—	1	04	1	19	5	40	9	61	7	55	
	300	2	52	3	54	0	—	0	—	0	—	0	—	0	—	1	22	4	39	6	59	5	72	—	27	
	250	3	60	3	62	0	—	0	—	0	—	0	—	0	—	1	18	2	28	6	64	2	104	—	17	
	200	6	67	0	—	0	—	0	—	0	—	0	—	0	—	0	—	2	32	3	68	3	47	—	14	
	150	3	81	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	5	57	4	74	—	12	
	100	3	53	0	—	0	—	0	—	0	—	0	—	0	—	0	—	2	42	2	46	3	36	—	10	
	70	0	—	1	12	1	16	0	—	0	—	0	—	1	12	0	—	0	—	3	28	0	—	4	36	
	60	2	21	1	12	0	—	0	—	0	—	1	12	0	—	1	10	0	—	3	26	0	—	1	28	
	50	2	16	1	14	0	—	0	—	0	—	1	13	1	43	0	—	0	—	3	19	0	—	1	43	
	40	0	—	0	—	0	—	0	—	0	—	1	13	1	43	0	—	0	—	2	15	1	06	1	42	
	30	1	06	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	11	0	—	2	32	—	5	
	20	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	23	0	—	0	—	1	44	
	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	

N = The number of cases the wind has been observed from the range of direction during the month.

TN = The total number of cases the wind has been observed for all directions during the month.

Table B 3. NUMBER OF OCCURRENCES OF WIND DIRECTION WITHIN SPECIFIED RANGES AND THE MEAN SCALAR SCALAR WIND SPEED AT THE STANDARD AND SELECTED PRESSURE SURFACES
ASWAN — APRIL 1975

Time	Pressure Surface Millibar	Wind between specified ranges of direction (000—360)°														Number of calm winds	Total number of observations (TN)	Mean scalar wind speed (knots)								
		345		015		045		075		105		135		165		195		225		255		285				
		N 014	(ft) m	N 044	(ft) m	N 074	(ft) m	N 104	(ft) m	N 134	(ft) m	N 164	(ft) m	N 194	(ft) m	N 224	(ft) m	N 254	(ft) m	N 284	(ft) m	N 314	(ft) m	N 344	(ft) m	
0000 U.T.	Surface	13	12	3	11	6	10	0	—	1	10	1	10	0	—	0	—	0	—	1	3	5	14	0	30	12
	1000	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	
	850	8	17	5	21	0	—	6	19	1	22	0	—	1	15	0	—	0	—	1	32	0	—	6	13	
	700	5	19	3	23	2	28	1	12	1	17	0	—	0	—	2	30	1	4	6	27	3	25	5	17	
	600	1	35	4	29	1	33	0	—	0	—	0	—	1	2	1	9	4	32	5	32	7	26	5	21	
	500	2	32	1	37	1	33	0	—	0	—	0	—	6	—	0	—	3	35	11	31	7	32	3	26	
	400	2	38	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	11	40	9	41	5	48	
	300	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	66	12	62	7	46	6	52	
	250	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	72	7	63	11	79	5	69	
	200	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	6	76	9	75	1	51	
	150	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	38	1	77	5	61	1	35	
	100	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	4	32	0	—	0	—	0	—	
	70	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	
	60	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	
	50	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	
	40	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	
	30	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	6	—	0	—	0	—	0	
	20	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	
	10	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	
1200 U.T.	Surface	10	11	3	10	1	7	1	15	1	12	1	7	3	13	0	—	0	—	0	—	1	14	3	16	
	1000	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	
	850	4	14	3	16	3	9	1	16	2	12	0	—	2	16	0	—	1	19	0	—	2	8	6	15	
	700	3	20	2	16	3	15	4	19	0	—	0	—	0	—	2	36	1	26	4	23	3	24	0	22	
	600	3	23	4	20	1	28	0	—	0	—	1	8	0	—	0	—	2	41	2	36	4	17	4	30	
	500	3	40	1	29	0	—	0	—	0	—	0	—	0	—	0	—	2	34	7	36	5	30	2	31	
	400	1	23	2	39	0	—	0	—	0	—	0	—	0	—	0	—	1	35	8	43	3	50	5	41	
	300	3	52	0	—	0	—	0	—	0	—	0	—	0	—	0	—	6	70	7	70	2	52	0	18	
	250	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	6	82	6	79	4	67	0	16	
	200	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	4	94	8	87	3	63	0	15	
	150	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	4	66	3	63	0	0	0	7	
	100	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	2	34	2	27	0	0	0	4	
	70	1	10	0	—	0	—	0	—	0	—	1	19	0	—	0	—	0	—	0	—	0	—	0	10	
	60	0	—	0	—	0	—	0	—	0	—	1	26	0	—	0	—	0	—	0	—	0	—	0	19	
	50	0	—	0	—	0	—	0	—	0	—	1	14	0	—	0	—	0	—	0	—	0	—	0	26	
	40	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	14	
	30	0	—	1	24	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	24	
	20	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	
	10	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	

N = The number of cases the wind has been observed from the range of direction during the month.

T = The total number of cases the wind has been observed for all directions during the month.

REVIEW OF AGRO-METEOROLOGICAL STATIONS

MERSA MATRUH — APRIL 1975

The mean daily air temperature was rather normal and the mean daily relative humidity was higher than normal. The total monthly rainfall was 2.0 mm. against 2.3 mm. for normal.

Weather during this month was generally mild apart from two light heat waves in the periods (1st, 2nd) and (11th, 12th). The second wave yielded the highest maximum air temperature for the month (30.8°C) on the 11th.

The highest maximum soil temperatures were lower than last April at depths between 2 and 20 cm. with departures between 0.2°C (at 5 cm.) and 1.2°C (at 10 cm.); and higher than last April at 50 and 100 cm. by 0.2° and 0.6°C respectively. The lowest minimum soil temperatures were higher than last April at all depths except at 100 cm. where its value was lower by 0.2°C; the departures varied between 2.3°C (at 10 cm.) and 0.7°C (at 50 cm.).

The mean daily actual sunshine duration was lower than normal by 0.6 hour. The mean daily wind speed at 1.5 met. height was lower by 1.1 met. / sec. than the corresponding value of April 1974

TAHRIR — APRIL 1975

The mean daily air temperature and relative humidity were above average. The total monthly rainfall was 5.9 mm. against 1.8 mm. for average.

The month was characterized by a prolonged heat wave from the 1st till the 13th yielding the highest maximum air temperature for the month (36.7°C) on the 3rd and three short heat waves on the 16th, 24th & 28th. In the rest of the month weather was mild.

The highest maximum soil temperatures were lower than average at depths between 2 and 20 cm. with departures between 3.1°C (at 2 cm.) and 0.7°C (at both 10, 20 cm.); and higher than average at 50 and 100 cm. depths by 0.1°C and 0.5°C respectively. The lowest minimum soil temperatures were higher than average at all depths with departures between 2.3°C (at 20 cm.) and 0.3°C (at 100 cm.).

The mean daily actual sunshine duration was higher than average by 0.3 hour. The mean daily wind speed at 1.5 met. height and pan evaporation were lower than average by 0.4 met. / sec. and 1.37 mm.

BAHTIM — APRIL 1975

The mean daily air temperature and relative humidity were above average. The month was rainless apart from 3.3 mm. on the 16th.

Two heat waves prevailed most of the first and second weeks. In the rest of the month weather was generally mild apart from a short heat wave on the 24th yielding the highest maximum air temperature for the month (36.3°C) together with the lowest relative humidity (18 %) and the highest daily pan evaporation (14.66 mm.).

The highest maximum soil temperatures were higher than average at all depths with departures between 5.1°C (at 5 cm.) and 0.4°C (at 10 cm.). The lowest minimum soil temperatures were also higher than average at all depths with departures between 2.0°C (at 2 cm.) and 0.4°C (at 10 cm.).

The mean daily actual sunshine duration was slightly higher than average. The mean daily wind speed at 1.5 met. height and pan evaporation were slightly lower than average.

KHARGA — APRIL 1975

The mean daily air temperature for this month was above average and the mean daily relative humidity was nearly the same as average.

The month was characterized by a prolonged heat wave from the 1st till the 16th and two short heat waves in the periods (24th & 25th) and (29th & 30th). The last wave yielded the highest maximum air temperature for the month (41.7°C) on the 30th. In the rest of the month weather was mild.

The highest maximum soil temperatures were higher than average at all depths with departures between 5.6°C (at 10 cm.) and 0.3°C (at 50 cm.). The lowest minimum soil temperatures were higher than average at depths between 2 and 20 cm. with departures between 4.0°C (at 2 cm.) and 1.6°C (at 20 cm.) and lower than average at 50, 100 cm. by 0.5°C and 0.1°C respectively.

The mean daily actual sunshine duration was higher than average by 0.7 hour. The mean daily wind speed at 1.5 met. height and pan evaporation were lower than average by 1.0 met / sec and 1.22 mm,

**Table C 1.—AIR TEMPERATURE AT 1½ METRES ABOVE GROUND
APRIL — 1975**

STATION	Air Temperature (°C)					Mean Duration in hours of daily air temperature above the following values.										
	Mean Max.	Mean Min.	Mean of the day	Night time mean	Day time mean	-5°C	0°C	5°C	10°C	15°C	20°C	25°C	30°C	35°C	40°C	45°C
M. Matruh.....	21.6	12.8	17.3	15.2	18.5	24.0	24.0	24.0	24.0	18.1	3.5	0.4	0.0	0.0	0.0	0.0
Tahrir.....	29.8	11.9	20.0	15.7	22.7	24.0	24.0	24.0	23.6	17.7	10.1	5.0	1.3	0.0	0.0	0.0
Bahtim	28.7	10.6	19.5	14.7	22.4	24.0	24.0	24.0	22.9	16.1	10.7	5.2	1.0	0.1	0.0	0.0
Kharga	35.4	18.5	27.8	24.3	29.9	24.0	24.0	24.0	24.0	23.9	21.6	15.8	9.1	2.7	0.1	0.0

**Table C 2.—EXTREME VALUES OF AIR TEMPERATURE AT 1½ METRES ABOVE GROUND,
ABSOLUTE MINIMUM AIR TEMPERATURE AT 5cms ABOVE GROUND OVER
DIFFERENT FIELDS.**

APRIL — 1975

STATION	Max. Temp. at 1½ metres (°C)				Min Temp. at 1½ metres. (°C)				Min. Temp. at 5 cms. above (°C)			
	Highest		Lowest		Highest		Lowest		Dry soil		Grass	
	Value	Date	Value	Date	Value	Date	Value	Date	Value	Date	Value	Date
M. Matruh.....	30.8	11	18.4	4	16.4	13.14	9.6	2	6.1	2	—	—
Tahrir	36.7	3	24.8	29	15.8	25	8.2	30	7.2	30	5.8	30
Bahtim	36.3	24	25.0	29	17.8	25	6.0	1	3.5	1	1.8	1
Kharga	41.7	30	28.4	19	24.2	17	12.4	29	10.0	1	—	—

Table C 3 — (SOLAR+SKY) RADIATION, DURATION OF BRIGHT SUNSHINE, RELATIVE HUMIDITY, VAPOUR PRESSURE AT 1½ METRES ABOVE GROUND, EVAPORATION & RAINFALL.

APRIL — 1975

STATION	(Solar+Sky) Radia-tion fm. cal/cm ²	Duration of Bright Sunshine (hours)			Relative Humidity. %			Mean of day	Vapour pressure (mms)					Pan class (A)	Evapora-tion (mms)			Rainfall (mms)		
		Total monthly	Actual monthly	Total Possible monthly	%	Mean of day	1200 U.T.		1200 UT	Highest	Date	Lowest	Date		Piche	Total Amount Monthly	Max. Fall in one day	Date		
M. Matruh...	457.3	261.6	387.9	68	73	61	22	11	10.6	10.8	13.6	8.24	5.9	2	4.2	—	2.0	1.4	16	
Tahrir.....	582.2	306.7	386.7	79	68	42	22	3.28	11.4	11.7	16.9	16	6.0	29	5.3	7.71	5.9	3.0	18	
Bahtim	564.2	300.0	386.3	78	64	39	18	24	10.3	10.8	16.5	8	5.6	24	6.8	7.63	3.3	3.3	16	
Kharga	637.6	332.0	381.5	87	25	16	8	7,29	6.5	6.4	12.5	5	2.9	1	14.5	14.86	0.0	—	—	

**Table C 4.—EXTREME SOIL TEMPERATURE AT DIFFERENT DEPTHS (cms)
IN DIFFERENT FIELDS**

APRIL — 1975

STATION	Highest (H) Lowest (L)	Extreme soil temperature (°C) in dry field at different depths (cms.)								Extreme soil temperature (°C) in grass field at different depths (cms.)							
		2	5	10	20	50	100	200	300	2	5	10	20	50	100	200	300
M. Matruh	H	35.0	33.2	27.0	23.3	22.0	20.6	19.5	—	—	—	—	—	—	—	—	—
	L	14.2	14.2	16.0	17.6	18.2	17.6	18.2	—	—	—	—	—	—	—	—	—
Tahrir	H	44.8	39.9	34.3	29.4	26.0	24.4	22.8	22.3	31.3	28.7	26.2	24.4	23.0	22.4	21.8	—
	L	17.8	16.8	17.7	20.5	21.3	20.7	20.6	21.2	15.8	15.8	15.6	17.0	18.9	18.7	19.0	—
Bahtim	H	50.5	42.8	32.4	27.7	25.2	23.7	23.1	23.2	30.2	26.0	24.7	22.7	21.4	19.9	19.2	—
	L	18.5	16.3	18.6	21.5	21.5	21.4	22.2	23.0	13.9	14.1	15.2	16.5	17.3	17.4	18.4	—
Kharga	H	56.6	49.9	44.0	35.4	29.5	28.1	26.6	26.7	—	—	—	—	—	—	—	—
	L	15.8	17.4	21.1	24.8	24.5	24.7	25.2	26.4	—	—	—	—	—	—	—	—

Table C 5.—SURFACE WIND

APRIL — 1975

STATION	Wind Speed m/sec at 1½ metres			Days with surface wind speed at 10 metres								Max. Gust (knots at 10 metres)	
	Mean of th day	Night time mean	Day time mean	≥ 10 knots	≥ 15 knots	≥ 20 knots	≥ 25 knots	≥ 30 knots	≥ 35 knots	≥ 40 knots	value knots	Date	
M. Matruh . . .	3.4	2.4	4.5	29	23	10	7	2	1	0	40	16	
Tahrir	2.2	1.5	2.9	29	16	5	0	0	0	0	31	18	
Bahtim	2.3	1.7	3.0	26	9	2	0	0	0	0	31	29	
Kharga	2.8	2.2	3.4	30	23	8	1	0	0	0	32	9	

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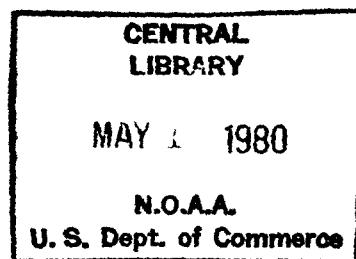


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PUBLICATIONS OF THE METEOROLOGICAL AUTHORITY OF THE ARAB REPUBLIC OF EGYPT—CAIRO

In fulfilment of its duties, the Egyptian Meteorological Authority issues several reports and publications on weather, climate and agro-meteorology. The principal publications are described on this page.

Orders for publications should be addressed to :

"Chairman of the Board of Directors, Meteorological Authority, Kubri-el-Qubbeh — CAIRO".

THE MONTHLY WEATHER REPORT

First issued in 1909, the Monthly Weather Report served to give a brief summary of the weather conditions that prevailed over Egypt during the month, with a table showing the mean values for few meteorological elements and their deviations from the normal values. From 1954 to 1957 this report was in a rapid state of development and extension resulting into a voluminous report on January 1958 giving surface, upper air, and agro-meteorological data for Egypt.

As from January 1964, the Monthly Weather Report was pressed to give climatological data for a representative selection of synoptic stations.

THE AGRO-METEOROLOGICAL ABRIDGED MONTHLY REPORT

Gives a review of weather experienced in the agro-meteorological stations of Egypt as well as monthly values of certain elements.

THE ANNUAL REPORT

This report gives annual values and statistics for the various meteorological elements, together with a summary of the weather conditions that prevailed during all months of the year.

CLIMATOLOGICAL NORMALS FOR EGYPT

A voluminous edition was issued in March 1968 which brings normals and mean values up till 1960.

METEOROLOGICAL RESEARCH BULLETIN

First issued in January 1969 on a bi-annual basis. It includes research works carried out by members of staff of "The Meteorological Institute for Research and Training" and the Operational Divisions of the Meteorological Authority.

TECHNICAL NOTES

As from October 1970, the Meteorological Authority started to issue a new series of publications in the form of Technical Notes (non periodical) on subjects related to studies and applications of meteorology in different fields for the benefit of personnel working in these fields.

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Note For explanatory notes on the tables please refer to Volume 18 number 1 (January 1975).

GENERAL SUMMARY OF WEATHER CONDITIONS

MAY 1975

Generally mild in north., hot in south. Three variant heat waves, the last was the most excessive and prevailed most of the fourth week.

PRESSURE DISTRIBUTION

The surface pressure was mainly influenced by :

- Transits of four depressions through East Mediterranean on the 2nd, 8th, 14th and 26th.
- High pressures established in their rears.

SURFACE WIND

Light to moderate NE to NW winds prevailed in general. Wlies and SW lies blew in front of depressions. Fresh or strong winds were experienced at times in scattered places.

TEMPERATURE

Two short heat waves prevailed in succession during the first half of the month. A pronounced one prevailed most of the fourth week.

Apart from the heat waves, maximum air temperatures were below normal.

Cairo, February 1977

The highest and lowest maximum air temperatures were respectively 45.0°C at Kom Ombo on the 2nd and 19.8°C at Sidi Barrani on the 2nd.

Minimum air temperatures suffered frequent variations and were below normal most days.

The highest and lowest minimum air temperatures were respectively 27.2°C at both Aswan on the 28th and Kharga on the 29th and 8.4°C at Bahtim on the 5th.

PRECIPITATION

Apart from 0.1 mm. of rain over Mersa Matruh on the 26th and 0.3 mm. over Damanhour on the 13th, no rain was reported.

OTHER WEATHER PHENOMENA

Rising sand was reported in scattered places during several days.

Early morning mist developed during some days over Delta and Cairo.

Chairman (A. F. HASAN)
Board of Directors

SURFACE DATA

**Table A 1.—MONTHLY VALUES OF THE ATMOSPHERIC PRESSURE, AIR TEMPERATURE,
RELATIVE HUMIDITY, BRIGHT SUNSHINE DURATION & PICHE EVAPORATION**

MAY — 1975

STATION	Atmospheric Pressure (mba) M.S.L.		Air Temperature °C								Relative Humidity %		Bright Sunshine Duration (Hours)			Piche Evaporation mm Mean	
	Mean	D.F. Normal or Average	Maximum		Minimum		$\frac{A+B}{2}$	Dry Bulb		Wet Bulb		Mean	D.F. Normal or Average	Total Actual	Total Possible	%	
			(A) Mean	D.F. Normal or Average	(B) Mean	D.F. Normal or Average		Mean	D.F. Normal or Average	Mean	D.F. Normal or Average						
Sallum	1012.9	-1.1	26.6	0.0	17.7	+1.1	22.2	21.5	+0.6	16.5	+0.2	60	+1	—	—	—	7.9
Mersa Matruh (A)	1013.3	-0.4	25.3	-0.1	15.5	+0.9	20.4	20.3	+0.3	15.9	-0.5	67	+1	324.5	426.0	76	7.2
Alexandria . (A)	1013.2	+0.1	26.5	-0.2	16.2	-0.3	21.4	21.0	-0.4	17.2	-0.3	69	+2	330.2	425.2	78	4.1
Port Said . . (A)	1012.4	-0.2	26.0	+0.4	18.4	-0.9	22.2	21.6	-0.4	17.5	-1.4	66	-4	356.4	425.2	84	4.3
El Arish	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Ghazza	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tanta	1012.0	-0.8	30.0	-1.7	13.2	-1.4	21.6	21.2	-1.4	16.3	-0.3	63	+12	347.7	424.3	82	6.0
Cairo (A)	1011.9	-0.3	31.1	-1.1	17.2	-0.2	24.2	24.0	-0.6	16.7	-0.3	48	+5	—	—	—	15.6
Fayoum	—	—	33.5	-0.2	15.9	-1.3	24.7	24.6	-0.4	16.6	+0.2	45	+8	—	—	—	9.3
Minya (A)	1011.3	+0.2	34.4	-0.4	16.0	-0.4	25.2	25.5	-0.2	16.4	-0.2	39	+4	347.4	419.0	83	15.9
Aseyout . . . (A)	1010.9	+0.3	33.7	-2.3	17.5	-1.7	25.6	26.0	-1.6	15.0	-0.9	27	+3	—	—	—	19.5
Luxor (A)	1008.3	-0.6	38.2	-0.6	19.9	-0.2	29.0	29.3	-0.8	17.0	-0.4	25	+3	—	—	—	13.3
Aswan (A)	1008.2	-0.3	38.1	-0.4	22.3	+1.2	30.2	30.3	-0.1	15.6	+0.1	15	+3	—	—	—	23.6
Siwa	1011.3	-1.5	33.3	-0.9	17.1	+0.4	25.2	25.4	-0.3	16.2	+0.7	38	+10	347.0	421.1	80	14.6
Bahariya	1011.2	-0.4	33.8	-0.5	17.3	0.0	25.6	25.9	-0.1	15.5	-0.3	31	+2	—	—	—	13.0
Farafra	1012.2	-1.2	35.1	+0.7	17.8	+1.0	26.4	26.6	+0.7	15.0	+0.2	24	-1	—	—	—	16.2
Dakhla	1010.9	-0.4	33.8	-3.0	16.1	-3.3	25.0	26.1	-1.5	15.2	-0.4	27	+8	—	—	—	20.9
Kharga	1009.6	-0.3	36.6	-1.0	20.9	0.0	28.8	29.3	+0.3	15.9	+0.4	25	+4	369.4	413.4	89	17.6
Tor	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hurghada	1008.6	-1.1	30.6	+0.7	21.4	+1.0	26.0	26.1	+0.4	18.0	-0.1	42	-2	355.4	416.9	85	13.1
Quseir	1008.8	-0.6	29.3	-0.9	22.7	-0.1	26.0	26.1	-0.2	18.7	-0.1	46	0	—	—	—	10.8

Table A 2.—MAXIMUM AND MINIMUM AIR TEMPERATURES

MAY — 1975

Station	Maximum Temperature °C										Gross Min. Tmp.		Minimum Temperature °C									
	Highest	Date	Lowest	Date	No. of Days with Max-Temp.					Mean	Dev. From Normal	Highest	Date	Lowest	Date	No. of Days with Min. Temp.						
					>25	>30	>35	>40	>45							<10	<5	<0	<-5			
Sallum	38.8	25	20.0	1	18	5	3	0	0	16.7	—	27.0	25,26	12.8	4	0	0	0	0	0	0	
Mesra Matruh (A)	37.0	26	20.0	1	10	4	2	0	0	13.3	—	22.2	26	10.8	2,6	0	0	0	0	0	0	
Alexandria . (A)	32.9	26	22.0	2,3	17	4	3	0	0	14.0	—	20.1	28	12.4	12	0	0	0	0	0	0	
Port said . . (A)	32.2	14	22.6	1	21	2	0	0	0	18.0	—	22.3	28	16.3	4	0	0	0	0	0	0	
El Arish	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Ghazza	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Tanta	37.2	26,27	25.0	4	30	12	3	0	0	—	—	17.6	26	9.3	5	1	0	0	0	0	0	
Cairo . . . (A)	38.2	26	26.5	3,5	31	18	5	0	0	—	—	22.8	26	12.7	4	0	0	0	0	0	0	
Fayoum	40.9	26	27.5	4	31	26	10	2	0	13.6	—	21.4	27	12.2	4	0	0	0	0	0	0	
Minya . . . (A)	41.5	27	28.7	3,4	31	28	13	2	0	14.4	—	20.6	28	11.5	5	0	0	0	0	0	0	
Assyout . . . (A)	41.3	1	27.5	4	31	26	10	2	0	15.7	—	22.8	14	13.7	5	0	0	0	0	0	0	
Luxor . . . (A)	43.6	28	33.4	12	31	31	26	9	0	11.6	—	25.0	15	13.5	6	0	0	0	0	0	0	
Anwan . . . (A)	44.3	1	33.0	5	31	31	24	9	0	—	—	27.2	28	17.7	6	0	0	0	0	0	0	
Siva	41.0	27	27.0	3	31	23	9	3	0	16.3	—	26.9	26	10.8	4	0	0	0	0	0	0	
Bahariya	41.6	27	27.8	3	31	26	10	2	0	16.8	—	24.0	26,27	12.4	5	0	0	0	0	0	0	
Farafra	43.0	27	29.4	3	31	28	14	3	0	16.7	—	23.7	28	13.1	6	0	0	0	0	0	0	
Dakhla	42.2	1	28.5	3	31	27	14	4	0	16.0	—	23.7	29	12.5	21	0	0	0	0	0	0	
Kharga	43.2	1	30.4	3,4	31	31	19	5	0	18.9	—	27.2	29	14.4	13	0	0	0	0	0	0	
Tor	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Hurgada	35.6	2,27	27.4	5,6	31	18	2	0	0	—	—	26.4	28	17.0	5	0	0	0	0	0	0	
Quseir	33.4	27	26.6	3	31	11	0	0	0	—	—	26.7	29	19.6	12	0	0	0	0	0	0	

Table A 3.—SKY COVER AND RAINFALL

MAY — 1975

STATION	Mean Sky Cover (Oct.).						Rainfall mms.									
	00 U.T.	06 U.T.	12 U.T.	18 U.T.	Daily Mean	Total Amount	D. From Normal	Max. Fall in one day		Number of Days with Amount of Rain						
								Amount	Date	<0.1	≥0.1	≥1.0	≥5.0	≥10	≥25	≥50
Salium	3.4	2.0	2.6	2.1	2.5	0.0	— 4.1	0.0	—	0	0	0	0	0	0	0
Marsa Matruh (A)	1.6	3.1	2.6	3.0	2.6	0.1	— 3.9	0.1	26	1	1	0	0	0	0	0
Alexandria . . . (A)	2.0	3.1	2.1	2.3	2.3	0.0	— 1.7	0.0	—	0	0	0	0	0	0	0
Port Said . . . (A)	0.7	2.0	1.2	1.0	1.2	0.0	— 2.6	0.0	—	0	0	0	0	0	0	0
El Arish	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Ghazze	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tanta	0.1	1.8	2.0	0.8	1.1	0.0	— 4.2	0.0	—	0	0	0	0	0	0	0
Cairo (A)	0.4	2.0	1.5	0.9	1.3	0.0	— 0.7	0.0	—	0	0	0	0	0	0	0
Fayoum	—	0.3	1.0	0.3	—	0.0	— 1.1	0.0	—	0	0	0	0	0	0	0
Minya	0.4	0.9	1.5	0.6	0.9	0.0	— 0.5	0.0	—	0	0	0	0	0	0	0
Assyout (A)	0.4	0.9	0.7	0.6	0.6	0.0	— Tr.	0.0	—	0	0	0	0	0	0	0
Luxor (A)	0.5	0.6	0.7	0.7	0.7	0.0	— 0.3	0.0	—	0	0	0	0	0	0	0
Aswan (A)	0.1	0.1	0.2	0.2	0.2	0.0	— Tr.	0.0	—	0	0	0	0	0	0	0
Siwa	1.2	1.7	2.5	3.1	2.1	0.0	— 1.6	0.0	—	0	0	0	0	0	0	0
Bakariya	0.6	1.0	1.5	0.8	1.0	0.0	— 0.1	0.0	—	0	0	0	0	0	0	0
Farafra	—	1.0	1.5	0.8	—	Tr.	0.0	Tr.	2	1	0	0	0	0	0	0
Dakhla	0.1	0.4	0.6	0.3	0.3	0.0	— 0.1	0.0	—	0	0	0	0	0	0	0
Kharga	0.1	0.7	0.7	0.5	0.5	0.0	— 0.3	0.0	—	0	0	0	0	0	0	0
Tor	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hurghada	0.7	0.9	0.9	0.4	0.7	0.0	— 0.5	0.0	—	0	0	0	0	0	0	0
Quseir	0.2	0.5	0.9	0.3	0.5	0.0	— 0.1	0.0	—	0	0	0	0	0	0	0

Table A 4. — DAYS OF OCCURRENCE OF MISCELLANEOUS WEATHER PHENOMENA.

MAY - 1975

Station	Precipitation				Frost	Thunderstorm	Mist Vis ≥ 1000 Metres	Fog Vis < 1000 metres	Haze Vis ≥ 1000 Metres	Thick Haze Vis < 1000 Metres	Dust or Sandstorm Vis ≥ 1000 Metres	Dust or Sandstorm Vis < 1000 Metres	Gale	Clear Sky	Cloudy Sky	
	Rain	Snow	Ice Pellets	Hail												
Sallum	0	0	0	0	—	—	—	—	—	—	—	—	—	0	11	0
Mersa Matruh . . . (A)	1	0	0	0	—	—	—	—	—	—	—	—	—	0	11	0
Alexandria (A)	0	0	0	0	—	—	—	—	—	—	—	—	—	0	11	0
Port Said (A)	0	0	0	0	—	—	—	—	—	—	—	—	—	0	24	0
El Arish	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Ghazza	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tanta	0	0	0	0	—	—	—	—	—	—	—	—	—	0	24	0
Cairo (A)	0	0	0	0	—	—	—	—	—	—	—	—	—	0	23	0
Fayoum	0	0	0	0	—	—	—	—	—	—	—	—	—	—	—	—
Minya (A)	0	0	0	0	—	—	—	—	—	—	—	—	—	0	26	0
Asyout. (A)	0	0	0	0	—	—	—	—	—	—	—	—	—	0	26	0
Luxor (A)	0	0	0	0	—	—	—	—	—	—	—	—	—	0	26	1
Aswan (A)	0	0	0	0	—	—	—	—	—	—	—	—	—	1	31	0
Siwa	0	0	0	0	—	—	—	—	—	—	—	—	—	0	0	17
Bahariya	0	0	0	0	—	—	—	—	—	—	—	—	—	0	0	26
Farafra	0	0	0	0	—	—	—	—	—	—	—	—	—	0	0	0
Dakhla	0	0	0	0	—	—	—	—	—	—	—	—	—	0	0	29
Kharga	0	0	0	0	—	—	—	—	—	—	—	—	—	0	0	0
Tor	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hurghada	0	0	0	0	—	—	—	—	—	—	—	—	—	1	0	27
Quseir	0	0	0	0	—	—	—	—	—	—	—	—	—	0	0	29

TABLE A 5—NUMBER IN HOURS OF OCCURRENCES OF CONCURRENT SURFACE WIND SPEED AND DIRECTION RECORDED WITHIN SPECIFIED RANGES
MAY — 1975

Station	Calm (hours)	Variable (hours)	Unrecorded (hours)	Wind speed in knots	Number in hours of occurrences of wind blowing from the ranges of directions indicated												All directions
					345°	015°	045°	075°	105°	135°	165°	195°	225°	255°	285°	315°	
					/	/	/	/	/	/	/	/	/	/	/	/	
Salleeu	31	7	1	1—10	21	57	100	106	49	13	12	4	7	32	75	68	544
				11—27	8	13	32	4	2	6	7	9	7	9	25	39	161
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	29	70	132	110	51	19	19	13	14	41	100	107	705
MerseMatrah . . (A)	31	0	0	1—10	31	55	38	35	57	25	15	12	38	50	37	67	460
				11—27	0	33	21	36	16	9	1	0	1	3	58	75	253
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	31	88	59	71	73	34	16	12	39	53	95	142	713
Alexandria . . . (A)	2	1	0	1—10	120	57	26	26	26	18	8	5	11	12	50	227	586
				11—27	25	13	4	6	4	1	1	1	4	12	30	52	153
				28—47	0	0	0	0	0	0	0	0	2	0	0	0	2
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	145	70	30	32	30	19	9	6	17	24	80	279	741
Cairo (A)	42	4	22	1—10	97	115	57	16	9	3	1	1	12	38	47	80	476
				11—27	41	54	28	14	4	1	1	2	4	12	12	26	199
				28—47	0	0	0	0	0	0	0	1	0	0	0	0	1
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	138	169	85	30	13	4	2	4	16	50	59	106	676
Fayasm.	1	5	182	1—10	174	208	18	3	2	3	6	5	13	11	29	46	518
				11—27	1	27	6	0	0	0	0	0	2	0	0	1	37
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	1	0	1
				All speeds	175	235	24	3	2	3	6	5	15	11	30	47	556
Minya (A)	27	6	0	1—10	182	67	11	4	5	14	13	2	2	3	4	24	331
				11—27	192	150	1	0	0	1	1	2	0	2	9	22	380
				28—54	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	374	217	12	4	5	15	14	4	2	5	13	46	711
Asyout (A)	30	0	0	1—10	119	53	9	6	8	13	17	4	8	6	39	90	372
				11—27	176	49	0	0	0	0	12	5	4	0	9	87	342
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	295	102	9	6	8	13	29	9	12	6	48	177	714

Table A 5 (contd.)—NUMBER IN HOURS OF OCCURRENCES OF CONCURRENT SURFACE WIND SPEED AND DIRECTION RECORDED WITHIN SPECIFIED RANGES
MAY 1975

Station	Calm (hours)	Variable (hours)	Unrecorded (hours)	Wind speed in knots	Number in hours of occurrences of wind blowing from the ranges of directions indicated													
					345	015	045	075	105	135	165	195	225	255	285	315	All directions	
					/	/	/	/	/	/	/	/	/	/	/	/	/	
Louxor	83	0	0	1—10	93	75	28	23	16	14	59	35	21	42	85	117	608	
				11—27	11	2	0	0	0	0	0	0	0	0	0	3	34	50
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	104	77	28	23	16	14	59	35	21	42	88	151	656	
Aswan	41	0	2	1—10	159	122	22	2	6	17	10	6	4	4	12	82	446	
				11—27	114	46	1	0	0	4	1	0	0	0	0	6	83	255
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	273	168	23	2	6	21	11	6	4	4	18	165	701	
Siwa	22	1	0	1—10	13	57	88	112	89	52	19	10	14	30	50	57	591	
				11—27	5	10	21	5	21	22	10	1	0	1	26	7	129	
				28—47	0	0	0	0	0	0	0	0	0	0	0	1	1	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	18	67	109	117	110	74	29	11	14	31	76	65	721	
Dakhla	2	2	0	1—10	79	46	28	25	19	24	24	28	27	37	82	172	591	
				11—27	44	33	3	0	0	0	2	4	1	1	0	61	149	
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0	
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0	
				All speeds	123	79	31	25	19	24	26	32	28	38	82	233	740	
Kharga	1	0	0	1—10	221	66	15	7	13	12	9	7	4	8	21	78	461	
				11—27	231	25	0	0	0	0	1	1	1	1	1	0	22	282
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	452	91	15	7	13	12	10	8	5	9	41	100	743	
Hurghada	4	2	0	1—10	23	35	22	4	8	11	14	5	2	2	71	56	251	
				11—27	144	68	4	0	3	1	0	0	0	0	0	85	182	487
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0	
				All speeds	165	103	26	4	11	12	14	5	2	2	156	238	238	
Quseir	0	1	1	1—10	73	18	7	5	12	10	13	2	17	62	113	101	433	
				11—27	103	5	0	0	0	0	0	0	0	0	0	17	174	299
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	10	1
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	176	23	7	5	12	19	13	2	17	62	130	285	242	

UPPER AIR CLIMATOLOGICAL DATA

**Table B1. MONTHLY MEANS AND MONTHLY ABSOLUTE HIGHER & LOWER
VALUES OF ALTITUDE, AIR TEMPERATURE & DEW POINT AT
STANDARD AND SELECTED PRESSURE SURFACES.**

MAY -- 1975

Station	Pressure Surface Millibar	Altitude of Pressure Surface (gpm)				Temperature (°C)				Dew Point (°C)	
		N	Mean	Highest	Lowest	N	Mean	Highest	Lowest	N	Mean
Messa Matrah (A) 0000 U.T.	Surface	27	1011mb.	1017mb.	1009mb.	27	18.6	26.0	14.6	27	12.7
	1000	27	118	1e7	28	27	18.3	26.6	14.6	27	12.4
	850	27	1504	1569	1430	27	14.5	24.5	6.0	27	-3.0
	700	25	3115	3207	3032	25	4.8	13.0	-0.9	25	-10.4
	600	24	4355	4481	4260	24	-2.8	4.6	-8.7	24	-19.5
	500	23	5787	5939	5654	23	-12.5	5.5	-18.1	22	-28.4
	400	22	7418	7612	7280	22	-24.8	-18.0	-31.0	22	-37.9
	300	22	9478	9712	9255	22	-44.4	-33.0	-45.7	22	-52.4
	250	22	10700	10982	10463	22	-47.9	-41.5	-53.9	21	-59.4
	200	20	1212	12412	11895	20	-53.6	-48.3	-58.1	20	-64.9
	150	19	14017	1299	13749	19	-51.0	-48.6	-59.1	16	-66.7
	100	14	16605	1936	16374	14	-60.3	-56.3	-62.8	—	—
	70	11	18858	19251	18588	11	-60.1	-52.1	-67.1	—	—
	60	11	19852	20280	19570	11	-59.1	-50.8	-64.0	—	—
	50	11	26953	21441	2075	11	-57.2	-49.2	-61.3	—	—
	40	7	22464	22980	22200	7	-54.5	-47.6	-59.0	—	—
	30	6	2280	2821	2058	6	-50.9	-46.0	-54.5	—	—
	20	3	27055	2731	26618	3	-46.7	-43.9	-51.3	—	—
	10	—	—	—	—	—	—	—	—	—	—
Halwan 0000 U.T.	Surface	31	995mb.	1002mb.	988mb.	31	19.5	21.0	14.9	31	18.9
	1000	29	100	157	935	2	15.4	15.9	15.0	2	12.6
	850	29	189	1523	1457	29	14.6	21.6	07.0	29	+01.4
	700	29	3148	3164	3051	29	05.7	12.0	+00.6	29	-08.8
	600	29	4351	4119	4186	29	-01.8	+02.0	-01.0	29	-17.3
	500	29	579	5854	5696	29	-12.1	-08.9	-15.7	29	-25.7
	400	29	7448	7535	7342	29	-24.6	-20.9	-29.0	29	-36.3
	300	28	9480	9584	9375	28	-40.1	-35.3	-43.8	28	-49.5
	250	27	10715	10893	1051	27	-44.1	-41.7	-51.1	27	-57.3
	200	27	12155	12365	12012	27	-53.7	-44.9	-53.4	25	-62.1
	150	27	13092	14225	1382	27	-57.1	-43.5	-67.0	23	-65.2
	100	25	16505	16714	16396	25	-50.0	-40.4	-71.0	—	—
	70	20	1877	18836	18553	20	-44.8	-50.9	-70.0	—	—
	60	18	19611	19800	19510	17	-63.8	-59.9	-68.3	—	—
	50	18	2076	20918	20594	18	-61.3	-58.1	-68.6	—	—
	40	14	22262	22430	22120	14	-58.2	-55.8	-61.9	—	—
	30	13	24103	2416	23859	13	-54.9	-51.0	-58.8	—	—
	20	8	2655	26811	26790	8	-50.0	-46.0	-54.7	—	—
	10	3	31227	31423	30910	3	-43.4	-39.3	-49.1	—	—
Atraw (A) 0000 U.T.	Surface	31	987mb.	990mb.	98mb.	31	15.0	31.4	18.5	31	1.0
	1000	31	76	108	50	—	—	—	—	—	—
	850	31	197	1526	154	31	20.9	26.4	15.0	31	-3.0
	700	31	3142	3188	3064	31	9.3	12.4	4.9	31	-11.9
	600	31	4402	4434	4307	31	0.5	3.0	-2.2	31	-17.8
	500	30	5830	5886	5730	30	-9.6	-6.2	-12.3	30	-27.3
	400	30	7526	7579	7408	30	-21.8	-18.7	-24.2	30	-37.4
	300	28	9529	9589	948	28	-30.9	-34.3	-38.6	28	-49.3
	250	27	10830	10822	10686	27	-44.6	-40.2	-50.0	27	-55.2
	200	25	12298	12112	12157	25	-52.9	-48.5	-60.5	24	-63.3
	150	23	14118	14243	14002	22	-6.7	-59.4	-69.0	1	-68.8
	100	21	16537	16683	16434	21	-75.4	-71.2	-78.9	—	—
	70	9	18634	18743	18529	9	-72.6	-70.0	-78.8	—	—
	60	7	19576	19840	19480	7	-68.3	-63.0	-70.8	—	—
	50	7	20653	20716	20529	7	-63.0	-58.2	-67.3	—	—
	40	2	22050	22100	22000	2	-59.0	-58.6	-59.4	—	—
	30	2	23787	23846	23729	2	-55.7	-55.1	-56.3	—	—
	20	1	26450	—	—	1	-53.5	—	—	—	—
	10	—	—	—	—	—	—	—	—	—	—

N = The number of cases the element has been observed during the month.

* The atmospheric pressure corrected to the elevation of the radiosonde station.

UPPER AIR CLIMATOOGICAL DATA

Table B1 (contd).—MONTHLY MEANS AND MONTHLY ABSOLUTE HIGHER & LOWER
VALUES OF ALTITUDE, AIR TEMPERATURE & DEW POINT AT
STANDARD AND SELECTED PRESSURE SURFACES
MAY—1975

Station	Pressure Surface (Millibar)	Altitude of Pressure Surface (gpm)				Temperature (°C)				Dew Point (°C)	
		N	Mean	Highest	Lowest	N	Mean	Highest	Lowest	N	Mean
Marsa Matruh (A) 1200 U.T.	Surface . . .	12	1010	1012	*	12	21.6	23.4	20.0	12	11.9
	1000 . . .	12	113	131	89	12	20.7	23.2	18.4	12	10.9
	850 . . .	12	1495	1517	1465	12	11.8	16.0	-7.0	11	-1.0
	700 . . .	12	9096	3137	3059	12	+2.9	6.2	-2.9	11	-12.1
	600 . . .	11	4336	4375	4296	11	-3.4	0.0	-6.2	11	-22.9
	500 . . .	10	5755	5803	5720	10	-13.3	-10.3	-16.9	10	-30.7
	400 . . .	10	7413	7476	7364	10	-26.3	-20.2	-33.9	10	-40.6
	300 . . .	10	94.0	9524	93.9	10	-38.9	-35.3	-41.6	9	-52.3
	250 . . .	10	10.73	10755	10600	10	-46.5	-43.7	-49.1	10	-58.7
	200 . . .	10	12139	12217	12060	10	-52.2	-48.8	-55.5	9	-63.2
	150 . . .	9	13981	14021	13915	9	-55.3	-50.9	-60.5	6	-66.1
	100 . . .	7	16520	1646	16433	7	-62.3	-60.8	-65.4	—	—
	70 . . .	4	18704	18752	18654	4	-61.8	-60.7	-63.9	—	—
	60 . . .	3	19693	19730	19650	3	-59.8	-59.0	-60.5	—	—
	50 . . .	3	20827	20852	20797	3	-56.7	-56.1	-58.0	—	—
	40 . . .	2	22410	22490	22330	2	-53.0	-52.1	-54.0	—	—
	30 . . .	2	24130	24145	24114	2	-48.2	-47.3	-49.0	—	—
	20 . . .	2	24844	26854	26835	2	-41.6	-41.1	-42.1	—	—
	10 . . .	—	—	—	—	—	—	—	—	—	—
Helwan 1200 U.T.	Surface . . .	31	995 m.b.	1001 m.b.	991 m.b.	31	29.5	37.7	23.9	31	07.3
	1000 . . .	30	095	149	060	2	26.0	27.3	24.7	2	06.3
	850 . . .	30	1512	1546	1467	30	17.4	27.0	+08.3	30	+0.1
	700 . . .	30	3141	317	3076	30	+07.5	13.6	+01.8	30	-11.4
	600 . . .	28	4392	4185	4313	28	-24.0	+05.2	-06.0	28	-10.1
	500 . . .	28	5825	5946	5720	28	-10.0	-05.7	-14.7	28	-26.9
	400 . . .	28	7500	7657	7376	28	-22.4	-17.0	-28.1	28	-37.5
	300 . . .	27	9580	9748	9407	27	-37.3	-31.9	-41.5	27	-50.9
	250 . . .	26	10805	10985	10632	26	-45.2	-39.9	-49.2	26	-57.7
	200 . . .	25	12275	12516	12071	26	-50.9	-42.9	-57.1	26	-62.4
	150 . . .	26	14138	14443	13893	26	-53.9	-47.2	-0.4	22	-64.8
	100 . . .	25	16701	16952	16421	24	-59.6	-54.9	-8.6	2	-67.9
	70 . . .	22	18018	19217	18746	22	-59.9	-54.0	-67.8	—	—
	60 . . .	20	19932	20200	19730	20	-57.2	-51.1	-3.4	—	—
	50 . . .	20	21483	21438	20830	20	-53.0	-47.3	-60.9	—	—
	40 . . .	11	22634	22830	22320	11	-48.0	-43.6	-54.3	—	—
	30 . . .	11	24454	24873	24092	11	-43.5	-38.1	-51.9	—	—
	20 . . .	9	27177	27506	26786	9	-36.9	-28.0	-46.1	—	—
	10 . . .	1	31563	—	—	1	-34.5	—	—	—	—
Aswan (A) 1200 U.T.	Surface . . .	29	987 m.b.	990 m.b.	982 m.b.	29	36.7	41.8	32.8	29	2.4
	1000 . . .	—	—	—	—	—	—	—	—	—	—
	850 . . .	29	1517	1544	1491	29	23.1	28.9	18.0	29	-7.3
	700 . . .	29	3172	3223	3123	29	11.0	15.3	+5.4	29	-16.2
	600 . . .	26	4437	4483	4366	26	+2.4	4.8	-0.2	26	-22.6
	500 . . .	25	5880	7958	6802	25	-7.6	-4.0	-11.2	25	-31.0
	400 . . .	25	7583	7657	7492	25	-20.3	-17.2	-23.9	25	-41.3
	300 . . .	23	9618	9739	9507	23	-34.3	-32.7	-38.0	23	-51.6
	250 . . .	23	10897	11005	10820	23	-43.1	-37.9	-49.0	23	-60.0
	200 . . .	20	12381	12506	12272	20	-60.6	-46.1	-60.1	19	-65.5
	150 . . .	19	14224	14358	14120	19	-60.5	-57.7	-64.2	6	-72.7
	100 . . .	15	16180	16810	16580	15	-70.7	-65.1	-74.8	—	—
	70 . . .	5	18749	18638	18658	5	-71.9	-70.0	-76.6	—	—
	60 . . .	3	19700	19820	19220	3	-65.1	-61.4	-71.0	—	—
	50 . . .	3	20833	20918	20775	3	-60.4	-57.3	-65.5	—	—
	40 . . .	1	22850	—	—	1	-59.4	—	—	—	—
	30 . . .	1	23985	—	—	1	-54.6	—	—	—	—
	20 . . .	1	26063	—	—	1	-48.8	—	—	—	—
	10 . . .	—	—	—	—	—	—	—	—	—	—

N—The number of cases the element has been observed during the month.

**Table B 2.—MEAN AND EXTREME VALUES OF THE FREEZING LEVEL AND THE TROPOPAUSE;
THE HIGHEST WIND SPEED IN THE UPPER AIR**

MAY 1975

Station	Freezing Level									First Tropopause									Highest wind speed				
	Mean			Highest			Lowest			Mean			Highest			Lowest			Altitude (gpm)	Pressure (mb.)	Direction (000—360)°	Speed in Knots	
	Altitude (gpm)	Pressure (mb.)	Dew point (°C)	Altitude (gpm)	Pressure (mb.)	Dew point (°C)	Altitude (gpm)	Pressure (mb.)	Dew point (°C)	Altitude (gpm)	Pressure (mb.)	Temperature (°C)	Altitude (gpm)	Pressure (mb.)	Temperature (°C)	Altitude (gpm)	Pressure (mb.)	Temperature (°C)	Altitude (gpm)	Pressure (mb.)	Direction (000—360)°	Speed in Knots	
0000 G.M.T.	(N)	(N)	(N)							(N)	(N)	(N)											
	Mersa Matruh(A)	3778 (25)	643 (25)	-14.4 (25)	5100	554	-19.1	2500	749	-4.4	12550 (17)	180 (17)	-55.4 (17)	17800	82	-65.0	9440	219	-52.0	6512	496	275	62
	Helwan . . .	4034 (28)	622 (28)	-14.9 (28)	4610	583	-6.3	3420	670	-8.9	12825 (26)	186 (26)	-57.8 (26)	16900	094	-69.4	10980	239	-50.3	12050	199	350	130
0000 U.T.	Aswan . . A)	4480 (31)	595 (31)	-18.4 (31)	4990	560	-16.3	4120	618	-17.7	15737 (7)	119 (7)	-73.4 (7)	17020	093	-78.8	11080	238	-50.0	9600	296	315	100
	Mersa Matruh	(N)	(N)	(N)						(N)	(N)	(N)											
		3608 (12)	658 (12)	-11.6 (12)	4371	600	-27.0	2580	745	-10.4	13339 (7)	183 (7)	-56.8 (7)	15940	109	-67.5	11020	238	-46.9	9700	293	290	129
	Helwan . . .	4319 (29)	607 (29)	-18.7 (29)	5200	551	-21.4	3850	640	-20.8	12933 (26)	187 (26)	-53.6 (26)	16510	102	-67.4	11130	244	-41.7	12440	194	335	142
	Aswan	4759 (25)	577 (25)	-24.5 (25)	5400	530	-27.9	4380	604	-25.0	17620 (3)	086 (3)	75.2 (3)	18640	073	-73.0	17000	094	75.1	10500	—	310	125

N = The number of cases the element has been observed during the month.

Table B 3.—NUMBER OF OCCURRENCES OF WIND DIRECTION WITHIN SPECIFIED RANGES AND THE MEAN SCALAR WIND SPEED AT THE STANDARD AND SELECTED PRESSURE SURFACES
MERSA MATRUH (A) — MAY 1975

Time	Pressure Surface (Millibar.)	Wind between ranges of direction (000—360°)														Number of Calm winds	Total Number of Observations (T.N.)	Mean Scalar wind speed (Knots)											
		345		015		045		075		105		135		165		195		225		255		285							
		014	(ff)	044	N	074	N	104	N	134	N	164	N	194	N	224	N	254	N	284	N	314	N	344	N				
0000 T.U.	Surface	0	—	1	5	3	6	2	6	4	10	1	6	0	—	0	—	5	6	4	9	5	13	0	—	2	27	8	
	1000	1	8	1	3	0	—	2	9	3	13	1	18	0	—	9	—	1	9	3	12	1	15	0	—	0	13	12	
	850	0	—	1	14	0	—	1	11	1	19	9	—	1	14	0	—	1	15	3	21	2	12	1	21	0	0	11	15
	700	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	16	1	21	0	—	0	—	0	2	18	
	600	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	21	0	—	0	—	0	—	0	1	43	
	500	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	50	0	—	0	—	0	—	0	1	50	
	400	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	300	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	250	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	200	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	150	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	100	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	70	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	60	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	50	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	40	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	30	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1200 T.U.	Surface	1	12	1	12	0	—	1	12	0	—	0	—	0	—	0	—	0	—	4	17	5	13	0	—	12	13	13	
	1000	1	11	0	—	0	—	1	14	0	—	0	—	0	—	0	—	0	—	5	16	4	20	0	—	11	17	17	
	850	1	17	0	—	0	—	0	—	0	—	1	20	1	5	0	—	2	30	1	26	4	12	1	10	0	—	11	17
	700	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	4	30	3	28	1	29	0	—	0	—	8	29
	600	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	4	36	1	17	4	32	0	—	0	—	9	31
	500	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	4	39	1	30	1	34	0	—	0	—	6	36
	400	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	3	49	1	53	1	55	0	—	0	—	5	48
	300	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	2	92	0	—	0	—	0	—	2	92
	250	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	2	104	0	—	0	—	0	—	2	104
	200	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	150	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	100	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	70	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	60	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	50	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	40	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	30	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

N=The number of cases the element has been observed during the month.

TN=The total number of cases the wind has been observed for all directions during the month.

**TABLE B 3. — NUMBER OF OCCURRENCES OF WIND DIRECTION WITHIN SPECIFIED RANGES AND THE MEAN SCALAR WIND SPEED AT THE STANDARD AND SELECTED PRESSURE SURFACES.
HELWAN — MAY 1975**

Station	Pressure Surface (Millibar)	Wind between specified ranges of direction (000—360°)														Number of Calm winds	Total Number of Observations (TN)	Mean Scalar Wind Speed (Knots)									
		345		015		045		075		105		135		165		195		225		255		285					
		N	(ft) m	N	(ft) m	N	(ft) m	N	(ft) m	N	(ft) m	N	(ft) m	N	(ft) m	N	(ft) m	N	(ft) m	N	(ft) m	N	(ft) m				
0000 U.T.	Surface	9	07	10	11	3	09	5	09	0	—	0	—	0	—	1	05	0	—	1	05	2	08	0	31	0	
	1000	2	08	0	—	0	—	0	—	0	—	0	—	0	—	0	0	—	0	—	0	—	0	2	8		
	850	9	13	6	18	2	18	1	22	0	—	0	—	1	04	1	31	0	—	1	06	4	15	4	29	15	
	700	4	21	4	26	1	26	0	—	0	—	0	—	0	—	0	—	2	34	10	27	8	23	0	29		
	600	6	23	2	24	0	—	0	—	0	—	0	—	0	—	0	—	4	32	9	34	8	28	0	29		
	500	3	23	1	21	0	—	0	—	0	—	0	—	0	—	0	—	6	52	11	34	8	34	0	36		
	400	2	50	0	—	0	—	0	—	0	—	0	—	0	—	0	—	7	49	11	49	7	38	0	27		
	300	2	55	0	—	0	—	0	—	0	—	0	—	0	—	1	23	7	55	6	46	6	70	0	22		
	250	3	90	0	—	0	—	0	—	0	—	0	—	0	—	2	40	4	42	6	74	3	69	0	18		
	200	3	99	0	—	0	—	0	—	0	—	0	—	0	—	0	—	6	59	4	55	1	106	0	14		
	150	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	7	70	3	72	1	102	0	11		
	100	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	4	56	2	97	0	—	0	67		
	70	0	—	0	—	0	—	1	15	0	—	0	—	0	—	0	—	1	44	0	—	0	—	0	2		
	60	0	—	1	0	—	0	—	0	—	1	34	0	—	0	—	0	—	0	—	0	—	0	1			
	50	0	—	0	—	1	33	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	33		
	40	0	—	0	—	0	—	0	—	0	—	1	12	0	—	0	—	0	—	0	—	0	—	0	12		
	30	0	—	0	—	0	—	0	—	0	—	1	12	0	—	0	—	0	—	0	—	0	—	0	12		
	20	0	—	—	0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	17	0	17			
	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
1200 U.T.	Surface	10	11	5	14	1	03	0	—	0	—	0	—	0	—	1	13	3	10	3	09	8	12	0	31		
	1000	1	10	1	08	0	—	0	—	0	—	0	—	0	—	0	14	0	—	4	17	3	09	0	2		
	850	3	11	6	10	9	14	2	21	0	—	0	—	1	4	0	—	2	39	7	21	7	19	0	13		
	700	3	22	7	20	0	—	0	—	0	—	0	—	0	—	1	04	0	—	5	39	7	21	0	30		
	600	5	35	0	—	0	—	0	—	0	—	0	—	1	03	0	—	2	12	4	54	9	35	0	28		
	500	3	23	0	—	0	—	0	—	0	—	0	—	0	—	1	13	3	57	11	35	9	35	0	27		
	400	2	53	0	—	0	—	0	—	0	—	0	—	0	—	0	—	6	34	13	53	5	48	0	26		
	300	3	72	6	0	—	0	—	0	—	0	—	0	—	0	—	1	39	4	53	7	38	5	59	0	20	
	250	1	17	0	—	0	—	0	—	0	—	0	—	0	—	0	—	4	52	6	48	7	75	0	18		
	200	1	99	0	—	0	—	0	—	0	—	0	—	0	—	0	—	3	60	8	54	2	108	0	14		
	150	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	3	64	6	67	2	81	0	69		
	100	0	—	0	—	0	—	0	—	1	55	0	—	1	29	1	30	3	30	1	71	2	66	0	45		
	70	2	34	0	—	0	—	0	—	0	—	0	—	0	—	1	13	2	22	2	20	1	23	0	8		
	60	0	—	0	—	0	—	0	—	4	25	0	—	0	—	0	—	0	—	0	—	0	—	0	22		
	50	0	—	0	—	0	—	0	—	2	30	0	—	0	—	1	14	1	20	0	—	0	—	0	30		
	40	0	—	0	—	0	—	0	—	0	—	0	—	1	20	0	—	0	—	0	—	0	—	0	17		
	30	0	—	0	—	0	—	0	—	0	—	1	08	0	—	0	—	0	—	0	—	0	—	0	8		
	20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		

N = The number of cases wind has been observed from the range of direction during the month.

TN = The total number of cases the wind has observed during the month.

**TABLE B 3, NUMBER OF OCCURRENCES OF WIND DIRECTION WITHIN SPECIFIED RANGES AND THE MEAN
SCALAR WIND SPEED AT THE STANDARD AND SELECTED PRESSURE SURFACES.**

ASWAN — MAY 1975

Station	Pressure Surface (Millibar)	Wind between specified ranges of direction (000—360°)												Number of calm winds	Total number of observations (TN)	Mean shear wind speed (knots)											
		345		015		045		075		105		135		165		195		225		255		285					
		/	014	/	044	/	074	/	104	/	134	/	164	/	194	/	224	/	254	/	284	/	314	/	344		
0000 U.T.	Surface	24	13	2	11	0	—	0	—	1	3	0	—	1	6	0	—	0	—	0	—	2	14	1	31	12	
	1000	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	—	—	—	
	850	13	16	6	21	0	—	2	10	0	—	7	0	—	0	1	16	0	—	0	—	9	18	0	31	17	
	700	2	10	1	5	0	—	0	—	1	7	0	—	0	—	1	19	7	14	7	25	6	15	6	14	0	
	600	0	—	0	—	0	—	0	—	0	—	0	—	1	8	2	22	9	23	6	22	7	21	3	20	0	
	500	1	10	1	6	0	—	0	—	1	8	0	—	0	—	1	33	8	24	8	25	7	13	0	—	0	
	400	0	—	0	—	1	13	0	—	0	—	0	—	1	5	0	—	9	30	8	41	8	33	0	—	0	
	300	1	23	0	—	0	—	0	—	0	—	0	—	0	—	1	34	6	39	11	49	3	40	3	47	0	
	250	1	20	0	—	0	—	0	—	0	—	0	—	0	—	1	55	7	48	8	61	6	60	1	42	0	
	200	0	—	1	20	0	—	0	—	0	—	0	—	0	—	0	—	4	18	7	56	5	50	0	—	0	
	150	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	3	50	2	58	0	—	0	—	5	
	100	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	16	0	—	0	—	1	24	0	—	2	
	70	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	—	
	60	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	—	
	50	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	—	
	40	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	—	
	30	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	—	
	20	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	—	
	10	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	—	
1200 U.T.	Surface	16	12	4	12	0	—	0	—	1	8	0	—	1	4	0	—	1	5	0	—	1	15	5	12	0	
	1000	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	—	—		
	850	10	12	2	8	1	10	0	—	1	4	1	6	0	—	0	—	1	6	1	7	4	10	8	15	11	
	700	1	14	0	—	1	3	1	5	0	—	0	—	2	18	4	17	5	18	5	15	6	19	4	15	16	
	600	0	—	0	—	0	—	0	—	1	3	0	—	0	—	3	28	4	28	8	27	7	27	1	21	0	
	500	1	13	0	—	0	—	0	—	0	—	1	3	0	—	1	39	6	29	11	36	4	50	1	6	25	
	400	1	26	0	—	0	—	0	—	0	—	0	—	0	—	1	44	7	45	10	45	3	44	2	82	0	
	300	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	8	64	8	59	5	42	1	119	0	
	250	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	3	62	11	66	0	—	1	36	0	
	200	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	3	41	4	42	1	48	0	—	8	
	150	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	3	22	0	—	0	—	0	—	2	
	100	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	22	0	—	0	—	1	48	0	—	2	
	70	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	—	
	60	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	—	
	50	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	—	
	40	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	—	
	30	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	—	
	20	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	—	
	10	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	—	

N = The number has been observed from the range of direction during the month.

TN = The total number of cases the wind has been observed for all directions during the month.

REVIEW OF AGRO-METEOROLOGICAL STATIONS

MERSA MATRUH — MAY 1975

The mean daily air temperature and relative humidity were nearly the same as normal. The month was rainless apart from 0.1 mm. on the 26th, while the normal monthly rainfall is 3.0 mm.

Weather was mainly characterized by two heat waves in the periods (7th and 8th) and (23rd-27th). The second wave yielded both the highest maximum air temperature for the month (37.0°C) and the highest minimum air temperature (22.2°C) on the 26th. Apart from these two heat waves, weather was mild.

The highest maximum soil temperatures were higher than last May at all depths except at 5cm. where its value was the same as last May; the departures varied between 0.4°C (at both 2,50 cm.) and 1.6°C (at 10 cm.). The lowest minimum soil temperatures were lower than last May at all depths except at 10 and 100 cm. where the values were higher than last May; the departures varied between 0.1° and 0.9°C .

The mean daily actual sunshine duration was slightly lower than normal. The mean daily wind speed at 1.5 met. height was slightly lower than the corresponding value of May 1974.

TAHRIR — MAY 1975

The mean daily air temperature was below average and the mean daily relative humidity was slightly higher than average. The month was rainless, while the average monthly rainfall is 4.9 mm.

Weather was mainly characterized by two heat waves in the periods (8th—10th) and (24th—28th). The second wave yielded the highest maximum air temperature for the month (38.7°C) on the 28th. Apart from these heat waves, weather was mild.

The highest maximum soil temperatures were higher than average at all depths with departures between 0.1°C (at 2 cm.) and 1.1°C (at 10 cm.). The lowest minimum soil temperature was the same as average at 2 cm. depth, lower at 5 and 10 cm. by 1.2°C and 0.5°C respectively, and higher than average at 20, 50, 100 cm. depths by slight departures (0.1°C to 0.4°C).

The mean daily actual sunshine duration, wind speed at 1.5 met. height and pan evaporation were slightly lower than average.

BAHTIM — MAY 1975

The mean daily air temperature and relative humidity were slightly below average.

The month was intervened by a short heat wave on the 9th and a moderate heat wave in the period (25th—28th) yielding the highest maximum air temperature for the month (38.8°C) on the 26th. In the rest of the month, weather was mild.

The highest maximum soil temperatures were higher than average at all depths with departures between 4.1°C (at 5 cm.) and 0.6°C (at 100 cm.). The lowest minimum soil temperatures were higher than average at all depths except at 5 and 10 cm. where the values were lower than average; the departures varied between 0.1°C and 0.8°C .

The mean daily actual sunshine duration, wind speed at 1.5 met. height and pan evaporation were slightly higher than average.

KHARGA - MAY 1975

The mean daily air temperature and relative humidity were slightly above average.

Weather was characterized by four short heat waves on the 1st, 9th, 14th, 22nd and a pronounced heat wave from the 25th till the end of the month. The highest maximum air temperature for the month was 43.2°C (on the 1st). Apart from these heat waves mild weather was experienced.

The highest maximum soil temperatures were higher than average at all depths except at 2, 50 cm. where the values were lower than average by 0.1°C and 0.2°C ; the departures varied between 2.9°C (at 10 cm.) and 0.3°C (at 100 cm.). The lowest minimum soil temperatures were higher than average at all depths except at 10 and 20 cm. where the values were lower by 0.7°C and 0.2°C respectively; the departures ranged between 1.3°C (at 2 cm.) and 0.5°C (at both 5 and 50 cm.)

The mean daily actual sunshine duration was higher than average by 0.5 hour. The mean daily wind speed at 1.5 met. height and pan evaporation were lower than average by 0.4 met/sec. and 0.74 mm.

**TABLE C 1.—AIR TEMPERATURE AT 1½ METRES ABOVE GROUND
MAY 1975**

STATION	Air Temperature (°C)					Mean Duration in hours of daily air temperature above the following values										
	Mean Max.	Mean Min.	Mean of the day	Night time mean	Day time mean	-5°C	0°C	5°C	10°C	15°C	20°C	25°C	30°C	35°C	40°C	45°C
Mersa Matruh . . .	25.3	15.6	20.3	17.8	21.2	24.0	24.0	24.0	24.0	22.1	13.5	2.7	0.7	0.1	0.0	0.0
Tahrir	32.1	13.5	22.1	17.4	23.8	24.0	24.0	24.0	24.0	20.5	13.9	8.1	2.4	0.5	0.0	0.0
Bahtim	31.2	13.0	22.2	17.2	24.0	24.0	24.0	24.0	23.7	19.9	14.0	8.5	2.9	0.6	0.0	0.0
Kharga	33.6	20.9	29.4	26.0	30.6	24.0	24.0	24.0	24.0	24.0	23.2	18.1	10.8	3.8	0.8	0.0

**TABLE C 2.—EXTREME VALUES OF AIR TEMPERATURE AT 1½ METRES ABOVE GROUND
ABSOLUTE MINIMUM AIR TEMPERATURE AT 5cms ABOVE GROUND
OVER DIFFERENT FIELDS**

MAY 1975

STATION	Max. Temp. at 1½ metres (°C)				Min. Temp. at 1½ metres (°C)				Min. Temp. at 5 cms. above (°C)			
	Highest		Lowest		Highest		Lowest		Dry soil		Grass	
	Value	Date	Value	Date	Value	Date	Value	Date	Value	Date	Value	Date
Mersa Matruh . . .	37.0	26	20.0	1	22.2	26	10.8	5.0	6.0	5	—	—
Tahrir	38.7	28	27.6	2	18.2	26	9.0	4	8.2	4.5	7.2	5
Bahtim	38.8	26	26.5	5	17.8	29	8.4	5	4.6	4	3.0	4
Kharga	43.2	1	30.4	3.4	27.2	29	11.4	13	12.4	13.17	—	—

TABLE C 3.— SOLAR + SKY) RADIATION, DURATION OF BRIGHT SUNSHINE, RELATIVE HUMIDITY, VAPOUR PRESSURE AT 1½ METRES, EVAPORATION & RAINFALL

MAY 1975

STATION	Solar+Sky Radiation gm./cm²/hrs.	Duration of Bright Sunshine (hours)			Relative Humidity %				Vapour pressure (mmes)					Evaporation (mmes)		Rainfall (mmes)			
		Total Actual monthly	Total Possible monthly	%	Mean of day	1200 U.T.	Lowest	Date	Mean of day	1200 UT	Highest	Date	Lowest	Date	Piche	Pan class A	Total Amount Monthly	Max. Fall. in one day	Date
Mersa Matruh . . .	524.7	324.5	426.0	76	67	57	20	8	11.7	12.2	15.1	14.31	5.0	8	7.2	—	0.1	0.1	26
Tahrir	660.3	344.7	424.2	81	62	36	24	9.15,27	11.7	11.2	16.1	28	7.1	13	6.5	9.52	0.0	--	—
Bahtim	637.4	335.5	422.9	79	54	30	14	25.20	10.0	9.3	14.0	24.28	6.2	13	10.0	10.77	0.0	—	—
Kharga	691.2	369.4	418.4	89	25	16	9	22.25	7.2	7.0	11.0	20	3.6	22	17.6	19.29	0.0	—	—

**Table C 4.—EXTREME SOIL TEMPERATURE AT DIFFERENT DEPTHS (cms)
IN DIFFERENT FIELDS.**

MAY — 1975

STATION	Highest (H) Lowest (L)	Extreme soil temperature (°C) in dry field at different depths (cms.)								Extreme soil temperature (°C) in grass field at different depths (cms.)							
		2	5	10	20	50	100	200	300	2	5	10	20	50	100	200	300
M. Matruh	H	40.9	38.0	32.6	28.4	26.0	23.3	20.7	—	—	—	—	—	—	—	—	—
	L	18.1	18.0	18.2	20.0	21.5	20.0	19.2	—	—	—	—	—	—	—	—	—
Tahrir . .	H	51.7	45.7	39.7	33.8	30.4	27.8	25.1	24.1	34.5	32.4	30.0	27.8	26.4	25.3	24.0	—
	L	20.9	19.7	20.1	23.0	24.4	24.2	22.9	22.8	19.1	18.9	18.5	19.8	22.0	22.5	21.9	—
Bahtim . .	H	54.4	46.8	37.3	32.7	28.3	26.1	24.2	23.6	35.6	29.8	26.8	25.3	23.7	22.2	20.5	—
	L	22.3	21.2	21.9	25.1	24.8	23.7	23.1	23.2	18.6	18.0	18.8	20.6	21.1	20.1	19.3	—
Kharga . .	H	56.7	50.8	45.0	38.8	32.4	30.2	27.8	27.5	—	—	—	—	—	—	—	—
	L	17.9	21.3	24.2	27.8	29.0	28.2	26.6	26.7	—	—	—	—	—	—	—	—

Table C 5.—SURFACE WIND

MAY—1975

STATION	Wind Speed m/sec at 11/2 metres			Days with surface wind speed at 10 metres							Max. Gust (knots) at 10 metres	
	Mean of the dry	Night time mean	Day time mean	≥ 10 knots	≥ 15 knots	≥ 20 knots	≥ 25 knots	≥ 30 knots	≥ 35 knots	≥ 40 knots	Value (knots)	Date
M. Matruh	3.3	2.3	4.4	31	24	15	4	3	1	0	41	13 -
Tahrir	2.2	1.4	3.0	30	17	2	1	1	0	0	42	14
Bahtim.	2.7	1.8	3.6	29	12	3	0	0	0	0	33	14
Kharga.	3.6	2.8	4.4	29	23	12	5	0	0	0	35	3

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The Chairman
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MONTHLY WEATHER REPORT

VOLUME 18

NUMBER 6

JUNE, 1975

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THE EGYPTIAN METEOROLOGICAL AUTHORITY
CAIRO



THE ARAB REPUBLIC OF EGYPT

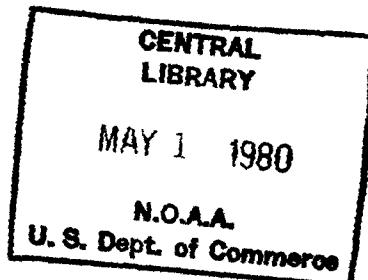
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THE EGYPTIAN METEOROLOGICAL AUTHORITY
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PUBLICATIONS OF THE METEOROLOGICAL AUTHORITY OF THE ARAB REPUBLIC OF EGYPT—CAIRO

In fulfilment of its duties, the Egyptian Meteorological Authority issues several reports and publications on weather, climate and agro-meteorology. The principal publications are described on this page.

Orders for publications should be addressed to :

"Chairman of the Board of Directors, Meteorological Authority, Kubri-el-Qubbeh — CAIRO".

THE MONTHLY WEATHER REPORT

First issued in 1909, the Monthly Weather Report served to give a brief summary of the weather conditions that prevailed over Egypt during the month, with a table showing the mean values for few meteorological elements and their deviations from the normal values. From 1954 to 1957 this report was in a rapid state of development and extension resulting into a voluminous report on January 1958 giving surface, upper air, and agro-meteorological data for Egypt.

As from January 1964, the Monthly Weather Report was pressed to give climatological data for a representative selection of synoptic stations.

THE AGRO-METEOROLOGICAL ABRIDGED MONTHLY REPORT

Gives a review of weather experienced in the agro-meteorological stations of Egypt as well as monthly values of certain elements.

THE ANNUAL REPORT

This report gives annual values and statistics for the various meteorological elements, together with a summary of the weather conditions that prevailed during all months of the year.

CLIMATOLOGICAL NORMALS FOR EGYPT

A voluminous edition was issued in March 1968 which brings normals and mean values up till 1960.

METEOROLOGICAL RESEARCH BULLETIN

First issued in January 1969 on a bi-annual basis. It includes research works carried out by members of staff of "The Meteorological Institute for Research and Training" and the Operational Divisions of the Meteorological Authority.

TECHNICAL NOTES

As from October 1970, the Meteorological Authority started to issue a new series of publications in the form of Technical Notes (non periodical) on subjects related to studies and applications of meteorology in different fields for the benefit of personnel working in these fields.

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Note For explanatory notes on the tables please refer to Volume 18 number 1 (January 1975).

GENERAL SUMMARY OF WEATHER CONDITIONS

JUNE 1975

Normal summer weather. Five variant heat waves, short in general.

PRESSURE DISTRIBUTION

Surface pressure was mainly influenced by:

- Transit of three depressions through East Mediterranean on the 4th, 15th & 19th and two desert depressions through north Egypt on the 11th & 27th.
- Relatively high pressure established over the Mediterranean and NE Africa otherwise.

SURFACE WIND

Light to moderate Nly & NWly winds were the most prevailing over most districts. Fresh winds blew during several days over scattered places mainly in the Western Desert and Upper Egypt.

TEMPERATURE

This month was intervened by five variant heat waves generally of short duration reaching their peaks on the 4th, 11th, 15th, 19th & 27th:

Maximum air temperatures were above normal during the heat waves, and below

normal otherwise. Departures from normal were slight or moderate.

The highest and lowest maximum air temperatures reported were respectively 45.2°C at Luxor on the 11th and 23.5C at Sidi Barrani on the 5th.

Minimum air temperatures experienced irregular slight or moderate departures from normal.

The highest and lowest minimum air temperatures reported were respectively 29.0°C at Asswan on the 12th and 12.4°C at Tahrir on the 9th.

PRECIPITATION

No rain was reported.

OTHER WEATHER PHENOMENA

Early morning mist developed during several days over scattered places in Delta & Cairo.

Light rising sand was reported during few days in scattered places mainly in the Western Desert and Upper Egypt Districts.

Chairman (A. F. HASSAN)

Board of Directors

Cairo, March 1977

SURFACE DATA

**Table A 1.—MONTHLY VALUES OF THE ATMOSPHERIC PRESSURE, AIR TEMPERATURE,
RELATIVE HUMIDITY, BRIGHT SUNSHINE DURATION & PICHE EVAPORATION**

JUNE — 1975

STATION	Atmospheric Pressure (mbs) M.S.L.		Air Temperature °C								Relativ Humidity %		Bright Sunshine Duration (Hours)		Piche Evaporation mm Maan		
			Maximum		Minimum		Dry Bulb		Dry Nulb								
	Mean	D.F Normal or Average	(A) Mean	D.F Normal or Average	(B) Mean	D.F Normal or Average	A+B 2	Mean	D.F Normal or Average	Mean	D.F Normal or Average	Mean	D.F Normal or Average	Total Actual	Total Possible	%	
Sallum	1011.5	— 1.1	29.7	0 0	18.9	— 1.0	24.3	24.0	— 0 5	18.4	— 1.4	59	— 1 1	—	—	9.5	
Mersa Matruh (A)	1011.6	— 1.1	28.3	+ 0.1	18.4	+ 0.1	23.4	23.1	— 0.3	18.7	— 0.9	68	— 1 1	351.1	425.2	83	7.9
Alexandria . . (A)	1011.5	— 0.3	29.4	+ 0.7	19.1	— 1.1	24.2	23.9	— 0.5	19.8	— 0.7	68	— 1 2	345.8	424.3	81	4.8
Port Said	1009.6	— 1.3	29.2	+ 0.6	21.4	— 1.0	25.3	24.7	— 0.3	20.5	— 0.8	67	— 1 4	352.9	424.3	83	4.4
El Arish	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Ghazza	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tanta	1010.3	— 0.7	32.3	— 1.7	17.4	+ 0.3	24.8	24.5	— 1.5	19.2	— 0.4	62	+ 9	338.7	422.5	80	6.4
Cairo . . . (A)	1010.2	— 0.7	34.4	— 0 4	21.0	+ 0.8	27.7	27.2	0 0	19.3	— 0.3	48	+ 2	—	—	—	16.7
Fayoum	—	—	36.5	+ 0 4	19.1	— 0.8	27.8	27.6	— 1 0	19.2	— 0.3	45	+ 6	—	—	—	9.9
Minya . . . (A)	1010.4	+ 0.7	36.8	+ 0 2	18.9	— 0.5	27.8	28.3	+ 0 3	18.8	— 0.2	50	+ 1	365.6	416.5	88	15.8
Assyout . . . (A)	1009.9	+ 1.0	36.0	— 1.8	20.3	— 1.3	28.2	28.7	— 1 3	17.1	— 1.1	30	+ 3	—	—	—	21.7
Luxor . . . (A)	1006.8	+ 0.5	40.6	— 1.5	22.8	— 1.4	31.7	31.9	— 1 8	18.2	+ 1.8	27	+ 15	—	—	—	13.4
Aswan . . . (A)	1006.9	+ 0.6	41.0	— 1.1	24.9	+ 0.7	33.0	32.8	— 1.0	17.7	+ 0.3	18	+ 6	372.9	406.8	92	28.4
Siwa	1010.8	— 1.0	36.4	— 1.0	20.0	+ 0.5	28.2	28.6	— 0.8	17.9	— 0 3	34	+ 5	376.9	419.1	90	17.9
Bahariya	1010.0	— 0.7	36.5	— 0.1	20.3	+ 0.6	28.4	28.6	— 0.8	17.8	— 0.7	33	+ 2	—	—	—	13.7
Farafra	1011.2	— 0.4	37.5	— 0.2	20.8	— 0.5	29.2	29.2	— 0.2	17.1	— 0.0	26	+ 2	—	—	—	17.5
Dakhlia	1010.2	+ 0.6	37.4	— 1.1	20.2	— 1.4	28.8	29.4	— 1 6	16.8	— 0.9	25	+ 5	—	—	—	23.6
Kharga	1008.4	+ 0.3	39.2	— 0.1	23.5	+ 0.1	31.4	32.2	0 0	18.3	+ 0 5	29	+ 8	344.4	469.7	89	28.2
Tor	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hurghada	1007.1	+ 0.2	32.2	0 0	24.6	+ 1.0	28.4	28.7	— 0 0	20.1	— 0 2	42	+ 4	368.9	413.6	89	14.2
Quseir	1007.5	+ 0.2	31.7	— 0.6	25.4	— 0.1	28.6	29.8	— 0 2	21.2	+ 0 4	43	+ 4	—	—	—	10.8

Table A 2 — MAXIMUM AND MINIMUM AIR TEMPERATURE

JUNE - 1975

Station	Maximum Temperature °C					Grass Min. Temp.	Dev. From Normal	Minimum Temperature °C					Mean	Highest	Date	Lowest	Date	No. of Days with Min. Temp.				
	Highest	Date	Lowest	Date	No. of Days with Max-Temp.					< 10	< 5	< 0	< -5									
					> 25	> 30	> 35	> 40	> 45													
Sallum	40.4	14	24.2	8	29	8	3	1	0	18.6	—	—	—	—	25.6	17	15.6	7	0	0	0	0
Mersa Matruh (A)	39.4	18	24.0	8	25	6	3	0	0	16.9	—	—	—	—	21.6	28	14.5	8	0	0	0	0
Alexandria . (A)	31.0	18	23.8	5	30	11	0	0	0	17.3	—	—	—	—	21.7	15	14.0	9	0	0	0	0
Port Said . (A)	32.0	14, 15	25.8	9	30	8	0	0	0	21.1	—	—	—	—	23.7	28-30	19.0	6	0	0	0	0
El Arish	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Ghazza	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tanta	38.0	19	28.3	22	30	23	6	0	0	—	—	—	—	—	20.5	15	13.8	9	0	0	0	0
Cairo (A)	38.6	4, 19	30.7	23	30	30	11	0	0	—	—	—	—	—	27.0	15	18.8	9	0	0	0	0
Fayoum	41.5	28	32.5	22	30	30	19	4	0	16.6	—	—	—	—	22.5	28	15.9	6	0	0	0	0
Minya . . . (A)	42.3	28	32.0	22	30	30	21	5	0	17.1	—	—	—	—	22.8	16	15.2	1	0	0	0	0
Assyout . . . (A)	41.8	11	28.5	18	30	29	16	2	0	18.3	—	—	—	—	23.8	16	17.3	22	0	0	0	0
Luxor . . . (A)	45.2	11	36.0	20, 21	30	30	30	16	1	15.6	—	—	—	—	27.2	12	20.4	10	0	0	0	0
Aswan . . . (A)	43.8	5	37.8	9	30	30	30	21	0	—	—	—	—	—	29.0	12	21.0	23	0	0	0	0
Siwa	42.3	2	28.6	6	30	27	19	7	0	19.0	—	—	—	—	24.5	15	15.6	8	0	0	0	0
Bahariya	43.0	4	31.4	5	30	30	20	5	0	19.6	—	—	—	—	23.5	11	15.3	6	0	0	0	0
Farafra	42.6	2, 27	32.5	22	30	30	23	7	0	19.5	—	—	—	—	25.0	16	15.6	7	0	0	0	0
Dakhla	42.6	4, 27	32.3	23	30	30	23	8	0	20.2	—	—	—	—	25.2	30	17.0	26	0	0	0	0
Kharga	44.8	11	33.8	22	30	30	28	14	0	21.5	—	—	—	—	28.5	15	19.0	25	0	0	0	0
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hurgada	38.4	28	30.1	9	30	30	3	0	0	—	—	—	—	—	27.3	30	22.0	25	0	0	0	0
Quseir	37.0	11	29.0	23	20	25	1	0	0	22.2	—	—	—	—	27.6	12	22.3	1	0	0	0	0

Table A 3. — SKY COVER AND RAINFALL.

JUNE — 1975

Station	Mean Sky Cover (Oct.)					Rainfall mms.										
	00 U.T.	06 U.T.	12 U.T.	18 U.T.	Daily Mean	Total Amount	D. From Normal	Max. Fall in one day		Number of Days with Amount of Rain						
								Amount	Date	<0.1	≥0.1	≥1.0	≥5.0	≥10	≥25	≥50
Sallum	1.3	0.6	0.8	0.4	0.8	0.0	— 0.4	0.0	—	0	0	0	0	0	0	0
Marsa Matruh (A)	1.4	2.1	0.9	1.8	1.6	0.0	— 2.3	0.0	—	0	0	0	0	0	0	0
Alexandria . . (A)	1.2	1.9	1.8	1.6	1.7	0.0	— Tr.	0.0	—	0	0	0	0	0	0	0
Port Said . . (A)	1.2	1.3	0.5	1.0	1.0	0.0	— Tr.	0.0	—	0	0	0	0	0	0	0
El Arish	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Ghazza	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tanta	0.1	1.5	1.2	0.2	0.6	0.0	— Tr.	0.0	—	0	0	0	0	0	0	0
Cairo (A)	0.8	2.2	1.0	0.1	0.9	0.0	— 0.2	0.0	—	0	0	0	0	0	0	0
Fayoum	—	0.5	0.1	0.0	—	0.0	— Tr.	0.0	—	0	0	0	0	0	0	0
Minya . . . (A)	0.0	0.2	0.2	0.3	0.2	0.0	— Tr.	0.0	—	0	0	0	0	0	0	0
Aseyout . . . (A)	0.0	0.0	0.0	0.0	0.0	0.0	— Tr.	0.0	—	0	0	0	0	0	0	0
Louxor . . . (A)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	—	0	0	0	0	0	0	0
Aswan . . . (A)	0.0	0.1	0.4	0.0	0.1	0.0	0.0	0.0	—	0	0	0	0	0	0	0
Siwa	0.2	0.2	0.0	0.2	0.1	0.0	— Tr.	0.0	—	0	1	0	0	0	0	0
Baharia	0.0	0.1	0.0	0.0	0.0	0.0	— 0.2	0.0	—	0	0	0	0	0	0	0
Farafra	—	0.0	0.0	0.0	—	0.0	— 0.2	0.0	—	0	0	0	0	0	0	0
Dakhalia	0.0	0.0	0.0	0.0	0.0	0.0	— Tr.	0.0	—	0	0	0	0	0	0	0
Kharga	0.0	0.0	0.0	0.0	0.0	0.0	— Tr.	0.0	—	0	0	0	0	0	0	0
Tor	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hurghada	0.1	0.0	0.1	0.2	0.1	0.0	— Tr.	0.0	—	0	0	0	0	0	0	0
Qaseir	0.0	0.0	0.1	0.1	0.1	0.0	— Tr.	0.0	—	0	0	0	0	0	0	0

Table A 4.—DAYS OF OCCURRENCE OF MISCELLANEOUS WEATHER PHENOMENA

JUNE—1975

Station	Precipitation				Frost	Thunderstorm	Mist Vis ≥ 1000 Metres	Fog Vis < 1000 Metres	Haze Vis at 1000 Metres	Thick Haze Vis < 1000 Metres	Dust or Sandstorm Vis ≥ 1000 Metres	Dust or Sandstorm Vis < 1000 Metres	Gale	Clear Sky	Cloudy Sky	
	Rain	Snow	Ice. Pellets	Hail												
Sallum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	0
Marsa Matruh . . . (A)	1 1 0	0 0	0 0	0 0	1 1 0	1 1 0	5 2 0	1 0	0 2 0	0 0 0	1 1 1	10 1 1	0 0 0	0 0 0	19 20 23	0 0 0
Alexandria (A)	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	—	—
Port Said (A)	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	—	—
El Arish	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	—	—
Ghasza	1 1 0	1 1 0	1 1 0	1 1 0	1 1 0	1 1 0	1 1 0	1 1 0	1 1 0	1 1 0	1 1 0	1 1 0	1 1 0	1 1 0	—	—
Tanta	0 0	0 0	0 0	0 0	0 0	0 0	2 11	0 0	0 0	0 0	0 0	1 1	0 0	0 0	—	—
Cairo (A)	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	5 4 0	0 0 0	0 0 0	3 2 7	0 0 0	0 0 0	23 30 30	0 0 0
Fayoum	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	—	—
Minya (A)	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	4 0	0 0	0 0	2 7	0 0	0 0	29 30 30	0 0 0
Asyout (A)	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	—	—
Luxor (A)	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	3 3	0 0	0 0	7 7	0 0	0 0	30 30 29	0 0 0
Aswan (A)	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	11 11	0 0	0 0	—	—
Siwa	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	5 3 9	0 0 0	0 0 0	28 30 30	0 0 0
Bahariya	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	1 3 7	0 0 0	0 0 0	30 30 30	0 0 0
Farafra	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	—	—
Dakhla	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	30 30	0 0
Kharga	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	7 7	0 0	0 0	30 30	0 0
Tor	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	12 12	0 0	0 0	—	—
Hurghada	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	30 30	0 0
Quseir	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	—	—

Table A 5.—NUMBER IN HOURS OF OCCURRENCES OF CONCURRENT SURFACE WIND SPEED AND DIRECTION RECORDED WITHIN SPECIFIED RANGES

JUNE—1975

Station	Calm (hours)	Variable (hours)	Unrecorded (hours)	Wind speed in knots	Number in hours of occurrences of wind blowing from the ranges of directions indicated													All directions
					315	015	045	075	105	135	165	195	225	255	285	315	345	
					/	/	/	/	/	/	/	/	/	/	/	/	/	All directions
El allum	25	17	0	1—10	36	72	23	34	51	16	5	15	10	34	57	82	435	2 2
				11—27	3	12	17	1	0	0	2	7	11	10	74	105	105	
				28—47	0	0	0	0	0	0	0	0	1	0	0	0	0	
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0	
				All speeds	39	84	40	35	51	16	1	22	22	44	131	187	618	
Meras Matruh . . (A)	14	0	2	1—10	19	18	16	23	25	22	9	7	21	73	53	40	326	378
				11—27	10	21	8	15	6	0	19	7	3	26	205	58	0	
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0	
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0	
				All speeds	29	39	24	38	31	22	28	14	24	99	258	98	104	
Alexandria	7	0	0	1—10	12	33	24	32	32	6	15	8	7	31	88	138	486	227
				11—27	17	12	0	0	0	0	0	2	2	38	64	92	0	
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0	
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0	
				All speeds	89	45	24	32	32	6	15	10	9	69	152	230	713	
Tanta	17	1	0	1—10	64	58	26	45	24	5	7	16	36	78	135	71	165	137
				11—27	28	13	13	0	0	0	0	0	0	0	2	32	49	
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0	
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0	
				All speeds	92	71	39	45	24	5	1	16	36	80	167	129	162	
Cairo (A)	47	1	7	1—10	57	72	50	18	8	0	5	3	5	44	102	99	413	202
				11—27	33	48	12	13	6	0	0	1	0	13	30	44	0	
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0	
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0	
				All speeds	92	120	63	31	14	0	5	4	5	57	132	143	663	
Fayoum	6	4	1	1—10	22	223	25	7	4	2	6	9	21	28	33	57	677	32
				11—27	0	31	0	0	0	0	0	0	0	0	0	0	1	
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0	
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0	
				All speeds	232	254	25	7	4	2	6	9	21	28	33	58	709	
Minya (A)	53	7	0	1—10	196	80	4	3	1	7	13	2	4	11	15	41	377	283
				11—27	122	147	0	0	0	0	0	0	0	0	5	9	0	
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0	
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0	
				All speeds	318	227	4	3	1	7	13	2	4	11	20	50	660	
Assout . . (A)	1	0	0	1—10	71	34	9	4	15	7	11	7	17	18	65	96	354	303
				11—27	192	31	0	0	0	0	0	0	0	0	0	15	125	
				28—47	1	0	0	0	0	0	0	0	0	0	0	0	1	
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0	
				All speeds	264	65	9	4	15	7	11	7	17	18	80	223	719	

Table A 5 (cont.)—NUMBER IN HOURS OF OCCURRENCES OF CONCURRENT SURFACE WIND SPEED AND DIRECTION RECORDED WITHIN SPECIFIED RANGES JUNE — 1975

Station	Calm (hours)	Variable (hours)	Unrecorded (hours)	Wind speed in knots	Number in hours of occurrences of wind blowing from the ranges of directions indicated													
					345 /	015 014	045 044	075 074	105 104	135 134	165 164	195 191	225 224	255 254	285 284	315 314	All directions 344	
Luxor (A)	106	0	0	1—10	101	79	9	9	7	10	27	31	21	64	123	115	602	
				11—27	0	0	0	0	0	0	0	0	0	0	0	1	11	12
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥ 48	0	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	104	79	9	9	7	10	27	34	21	64	124	120	614	
Aswan . . . (A)	0	13	0	1—10	145	61	3	3	2	4	1	0	0	6	45	91	364	
				11—27	180	21	0	0	0	0	0	0	0	0	5	26	111	343
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥ 48	0	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	325	85	3	3	2	4	1	0	0	11	71	202	207	
Siwa	24	3	1	1—10	59	70	42	47	45	21	16	14	7	37	56	76	490	
				11—27	29	31	20	0	2	6	3	2	3	6	44	54	200	
				28—47	0	0	0	1	1	0	0	0	0	0	0	0	0	
				≥ 48	0	0	0	0	0	0	0	0	0	0	0	0	0	
				All speeds	88	101	62	48	48	27	19	16	10	43	100	130	692	
Dakhla	6	0	0	1—10	91	41	10	10	9	16	9	16	23	39	81	222	567	
				11—27	58	23	0	0	0	0	0	0	0	1	1	64	147	
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0	
				≥ 48	0	0	0	0	0	0	0	0	0	0	0	0	0	
				All speeds	149	64	10	10	9	16	9	16	23	40	82	216	714	
Kharga	5	3	0	1—10	172	34	28	20	7	3	4	0	1	18	39	60	386	
				11—27	282	16	4	0	0	0	0	0	0	0	2	22	326	
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0	
				≥ 48	0	0	0	0	0	0	0	0	0	1	18	41	82	
				All speeds	454	50	32	20	7	3	4	0	1	18	41	82	712	
Hurghada	2	2	2	1—10	26	42	30	7	2	10	12	3	1	9	71	59	272	
				11—27	157	38	1	0	0	0	1	0	0	0	0	40	204	441
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0	
				≥ 48	0	0	0	0	0	0	0	0	0	0	0	0	0	
				All speeds	183	80	31	7	2	10	13	3	1	9	111	264	714	
Quseir	2	0	13	1—10	94	19	7	9	7	10	9	11	19	41	83	98	407	
				11—27	109	0	0	0	0	0	0	0	0	1	11	172	293	
				28—47	1	0	0	0	0	0	0	0	0	0	0	0	4	
				≥ 48	0	0	0	0	0	0	0	0	0	0	0	0	5	
				All speeds	204	19	7	9	7	10	9	11	19	42	94	274	705	

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UPPER AIR CLIMATOLOGICAL DATA

**Table B-1—MONTHLY MEANS AND MONTHLY ABSOLUTE HIGHER & LOWER
VALUES OF ALTITUDE, AIR TEMPERATURE & DEW POINT AT
STANDARD AND SELECTED PRESSURE SURFACES**

JUNE 1975

Station	Pressure Surface (Millibar)	Altitude of Pressure Surface (gpm)				Temperature (°C)				Dew Point (°C)	
		N	Mean	Highest	Lowest	N	Mean	Highest	Lowest	N	Mean
Mersa Motruh 0000 UT	Surface	22	1010m.b.	1012m.b.	1005m.b.	22	22.1	26.2	18.0	22	17.6
	1000	22	111	156	71	22	21.0	23.7	18.0	22	16.3
	850	22	1502	1539	1449	22	15.8	23.2	11.1	22	-5.0
	700	22	3128	3172	3051	22	7.2	12.8	2.0	22	-19.5
	600	22	4379	4450	4285	22	-0.5	5.6	-6.1	22	-22.2
	500	22	5813	5922	5707	22	-10.0	-2.3	-15.3	21	-31.6
	400	21	7499	7667	7377	21	-20.6	-11.9	-27.1	20	-41.0
	300	21	9575	9821	9447	21	-33.0	-24.0	-42.9	20	-51.1
	250	21	10841	11130	10702	21	-41.1	-33.4	-50.3	20	-58.2
	200	19	12346	12661	12114	19	-49.7	-45.0	-54.5	14	-65.1
	150	17	14202	14520	14067	17	-59.8	-53.3	-63.9	10	-72.0
	100	13	16700	16969	16448	13	-68.8	-61.2	-75.3	—	—
	70	7	18793	19110	18596	7	-63.7	-57.7	-67.1	—	—
	60	5	19864	20150	19660	5	-60.6	-56.4	-63.7	—	—
	50	5	20964	21250	20766	5	-58.3	-55.0	-60.0	—	—
	40	4	22475	22800	22200	4	-55.4	-53.3	-56.9	—	—
	30	4	24230	24550	24002	4	-52.3	-51.1	-53.9	—	—
	20	1	26534	—	—	1	-49.6	—	—	—	—
	10	—	—	—	—	—	—	—	—	—	—
Helwan 0000 UT	Surface	30	994m.b.	1000m.b.	989m.b.	30	22.3	27.2	19.2	30	12.0
	1000	25	089	140	044	1	19.2	—	—	1	13.2
	850	26	1495	1525	1434	26	18.9	23.3	12.1	26	02.5
	700	26	3097	3177	3049	26	09.4	13.1	05.1	26	-07.9
	600	26	4398	4458	4301	26	01.8	05.2	-01.4	26	-15.5
	500	26	5842	5919	5746	26	-07.6	-03.3	-11.2	26	-24.4
	400	26	7550	7653	7437	26	-18.0	-10.8	-24.0	26	-34.3
	300	25	9644	9796	9465	25	-31.4	-25.0	-39.4	25	-45.1
	250	25	10922	11098	10703	24	-39.0	-33.5	-45.6	24	-51.4
	200	24	12426	12629	12193	24	-47.3	-41.3	-51.8	24	-59.2
	150	22	14287	14568	14030	22	-58.8	-50.2	-64.8	11	-66.6
	100	18	16713	17010	15641	17	-68.6	-60.0	-74.5	—	—
	70	14	18909	19126	18701	14	-68.9	-63.9	-74.4	—	—
	60	12	19901	20080	19670	12	-66.3	-62.3	-73.3	—	—
	50	12	20964	21144	20764	12	-63.1	-56.4	-73.0	—	—
	40	8	22429	22600	22163	8	-61.1	-54.1	-73.3	—	—
	30	6	24163	24375	23943	6	-56.7	-50.3	-69.0	—	—
	20	2	26938	27049	26828	2	-47.8	-45.3	-50.3	—	—
	10	—	—	—	—	—	—	—	—	—	—
Aswan 0000 UT	Surface	29	986m.b.	990m.b.	982m.b.	29	27.2	32.5	22.5	28	8.7
	1000	29	063	106	34	—	—	—	—	—	—
	850	27	1498	1530	1471	27	23.0	26.0	17.4	27	-0.7
	700	26	3151	3182	3100	26	10.2	13.4	6.2	25	-10.2
	600	25	4415	4449	4360	25	1.8	5.0	-1.6	25	-17.9
	500	25	5865	5897	5828	25	-7.4	-2.7	-10.1	25	-27.6
	400	25	7567	7615	7437	25	-17.6	-12.5	-21.7	25	-36.0
	300	25	9667	9743	9544	25	-30.8	-27.8	-34.0	25	-47.0
	250	24	10939	11023	10832	24	-40.0	-37.8	-42.3	24	-55.0
	200	23	12429	12518	12334	23	-51.0	-49.0	-53.3	22	-68.6
	150	21	14256	14428	14162	20	-64.0	-61.2	-67.9	—	—
	100	14	16668	16772	16583	13	-76.4	-73.6	-81.0	—	—
	70	7	18703	18845	18621	7	-76.8	-66.8	-85.6	—	—
	60	1	19600	—	—	—	—	—	—	—	—
	50	—	—	—	—	—	—	—	—	—	—
	40	—	—	—	—	—	—	—	—	—	—
	30	—	—	—	—	—	—	—	—	—	—
	20	—	—	—	—	—	—	—	—	—	—
	10	—	—	—	—	—	—	—	—	—	—

N = The number of cases the element has been observed during the month.

* The atmospheric pressure corrected to the elevation of the radiosonde station.

UPPER AIR CLIMATOLOGICAL DATA

Table B1 (contd).—MONTHLY MEANS, ABSOLUTE HIGHER & LOWER VALUES
OF ALTITUDE, AIR TEMPERATURE & DEW POINT AT
STANDARD AND SELECTED PRESSURE SURFACES

JUNE — 1975

Station	Pressure Surface (Millibar)	Altitude of Pressure Surface (gpm)				Temperature (°C)				Dew Point (°C)	
		N	Mean	Highest	Lowest	N	Mean	Highest	Lowest	N	Mean
Mars Matruh 1200 U.T.	Surface	18	1009m.b.	1012m.b.	1006m.b.	18	27.0	35.4	24.0	18	16.5
	1000	18	112	142	81	18	25.8	35.0	22.8	18	14.0
	850	18	1518	1562	1491	18	16.9	22.6	9.5	18	-4.5
	700	18	3142	3202	3097	17	7.7	11.7	4.5	16	-1.3
	600	17	4401	4467	4350	17	0.7	4.1	-3.5	17	-21.9
	500	16	5845	5906	5784	16	-7.7	-1.7	-14.3	15	-30.2
	400	14	7534	7612	7473	14	-19.0	-9.7	-25.0	14	-40.4
	300	14	9628	9707	9513	14	-31.9	-23.0	-39.7	14	-50.6
	250	14	10896	11019	10736	14	-40.5	-31.5	-47.1	14	-58.2
	200	14	12389	12570	12204	14	-48.8	-41.1	-54.7	14	-64.9
	150	14	14240	14475	14045	14	-58.7	-52.5	-62.3	10	-72.8
	100	12	16739	17013	16567	12	-67.0	-57.9	-78.1	—	—
	70	7	18908	19169	18768	7	-65.2	-60.2	-73.1	—	—
	60	5	19822	19940	19750	5	-60.3	-57.9	-66.0	—	—
	50	5	20950	21028	20860	5	-56.4	-55.1	-59.3	—	—
	40	5	22470	22600	22300	5	-52.8	-51.2	-55.1	—	—
	30	4	24270	24360	24130	4	-48.2	-45.7	-49.9	—	—
	20	2	27057	27110	27004	2	-42.0	-39.1	-44.9	—	—
	10	—	—	—	—	—	—	—	—	—	—
Helwan 1200 U.T.	Surface	30	994m.b.	* 1000m.b.	989m.b.	30	32.8	38.1	28.0	30	10.0
	1000	27	085	140	052	1	30.0	—	—	1	11.7
	850	27	1515	1562	1472	27	20.0	25.2	12.1	27	02.7
	700	27	3163	3218	3089	26	11.0	15.2	06.1	25	-11.2
	600	27	4431	4490	4351	27	3.2	6.0	— 1.3	27	-18.1
	500	26	5885	5949	5801	26	— 5.4	— 0.2	-10.1	26	-22.8
	400	26	7605	7704	7481	26	-15.5	-7.3	-22.7	26	-35.3
	300	26	9720	9864	9536	26	-29.0	-19.1	-36.1	25	-46.0
	250	26	11006	11187	10780	25	-36.4	-30.9	-44.3	25	-52.0
	200	24	12731	12773	12279	24	-44.5	-37.1	-49.0	23	-58.5
	150	24	14412	14715	14157	24	-55.6	-47.2	-60.2	21	-67.2
	100	20	16932	17171	16749	20	-64.6	-59.7	-71.2	1	-70.5
	70	18	19133	19350	18839	18	-61.9	-54.5	-69.6	—	—
	60	13	20157	20340	19840	13	-57.2	-50.9	-64.2	—	—
	50	12	21283	21474	20963	12	-52.1	-45.8	-58.3	—	—
	40	5	22744	22840	22500	5	-48.3	-42.8	-51.5	—	—
	30	4	24548	24705	24301	4	-42.4	-33.5	-46.0	—	—
	20	2	27200	27370	27031	2	-39.1	-38.2	-40.0	—	—
	10	—	—	—	—	—	—	—	—	—	—
Aswan (A) 1200 U.T.	Surface	27	* 989mb.	* 991mb.	* 982m.b.	27	39.0	42.4	35.0	27	4.9
	1000	27	60	111	26	—	—	—	—	—	—
	850	27	1515	1559	1476	27	25.1	29.3	19.4	27	-4.5
	700	25	3177	3213	3117	25	12.1	15.0	9.0	25	-14.9
	600	24	4447	4486	4386	23	3.2	7.4	-4.4	23	-20.6
	500	23	5904	5953	5867	23	-4.7	-0.7	-9.8	23	-29.7
	400	23	7630	7737	7590	23	-15.1	-8.0	-19.4	23	-37.6
	300	20	9751	9833	9696	20	-28.2	-22.8	-31.6	20	-48.1
	250	19	11039	11131	10969	19	-37.2	-30.7	-40.8	19	-55.6
	200	19	12556	12677	12460	19	-48.7	-42.6	-51.6	19	-64.4
	150	17	14386	14567	14279	17	-62.4	-54.9	-67.8	3	-71.9
	100	10	16817	17087	16675	10	-75.3	-64.1	-81.6	—	—
	70	7	18928	19266	18751	7	-71.0	-63.3	-79.7	—	—
	60	4	19960	20310	19680	4	-65.4	-57.8	-71.9	—	—
	50	4	21030	21394	20719	4	-59.9	-50.9	-69.6	—	—
	40	2	22520	22600	22440	2	-54.1	-52.5	-55.8	—	—
	30	2	24308	24426	24190	2	-44.6	-39.7	-49.6	—	—
	20	1	26890	—	—	1	-42.1	—	—	—	—
	10	—	—	—	—	—	—	—	—	—	—

* The atmospheric pressure corrected to the elevation of the radiosonde station.

N = The number of cases the element has been observed during the month.

**TABLE B 2.—MEAN AND EXTREME VALUES OF THE FREEZING LEVEL AND THE TROPOPAUSE:
THE HIGHEST WIND SPEED IN THE UPPER AIR**
JUNE—1975

Station	Freezing Level									First Tropopause									Highest wind speed				
	Mean			Highest			Lowest			Mean			Highest			Lowest							
	Altitude (gpm)	Pressure (mb.)	Dew point (°C)	Altitude (gpm)	Pressure (mb.)	Dew Point (°C)	Altitude (gpm)	Pressure (mb.)	Dew Point (°C)	Altitude (gpm)	pressure (mb.)	Temperature (°C)	Altitude (gpm)	Pressure (mb.)	Temperature (°C)	Altitude (gpm)	Pressure (mb.)	Temperature (°C)	Altitude (gpm)	Pressure (mb.)	Direction (000–360°)	Speed in Knots	
1200 U.T.	(N)	(N)	(N)							(N)	(N)	(N)											
	4326 (22)	606 (22)	-21.2 (22)	5620	527	-26.0	3480	605	-23.5 (9)	14131 (9)	167 (9)	-62.3 (9)	16960	96	-66.0	7200	416	-45.7	1485	8.9	325	34	
	M. Matruh . .	4676 (26)	581 (26)	-17.1 (26)	5270	543	-16.4	4090	20	-17.2 (14)	16289 (14)	170 (14)	-68.1 (13)	18710	076	-73.7	10800	252	-40.5	12260	204	300	130
	Helwan . . .	4712 (25)	579 (25)	-19.7 (25)	5310	533	-25.1	4130	624	-16.8 (2)	16675 (2)	102 (2)	-73.1 (2)	17510	087	-75.2	15800	118	-71.0	16485	—	125	70
	(N)	(N)	(N)							(N)	(N)	(N)											
	M. Matruh . .	4523 (17)	592 (17)	-22.4 (17)	5000	560	-11.8	3840	640	-21.5 (6)	1422 (6)	139 (6)	-63.6 (6)	17580	088	-76.6	13400	172	-60.0	12400	204	205	85
1800 U.T.	Helwan . . .	4997 (27)	561 (27)	-20.9 (27)	5890	504	-24.3	4060	627	-11.5 (15)	16444 (15)	111 (15)	-63.8 (15)	18900	082	-67.2	14120	154	-57.4	11550	228	280	137
	Aswan . . .	5056 (23)	557 (23)	-24.5 (23)	5750	506	-25.9	4260	615	-11.8 (4)	16354 (4)	105 (4)	-74.6 (4)	16900	097	82.7	15420	111	-64.5	16775	103	120	80

■ = The number of cases the element has been observed during the month.

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**Table B 3.—NUMBER OF OCCURRENCES OF WIND DIRECTION WITHIN SCPEIFIED RANGES AND THE MEAN SCALAR WIND SPEED AT THE STANDARD AND SELECTED PRESSURE SURFACES
MERSA MATRUH (A) JUNE 1975**

Time	Pressure Surface Millibar.	Wind between ranges of direction (000—360°).														Number of Calm winds	Total Number of Observations T.N	Mean Scalar wind speed (Knots)										
		345		015		045		075		105		135		165		195		225		255								
		N 014	(ff) 044	N 074	(ff) 104	N 134	(ff) 164	N 194	(ff) 224	N 254	(ff) 284	N 314	(ff) 344	N 0	(ff) 1	N 0	(ff) 1	N 0	(ff) 1	N 0	(ff) 1	N 0	(ff) 1					
0000 U.T.	Surface	1	11	0	—	1	3	1	10	1	10	1	2	0	—	2	2	0	—	7	10	7	12	1	7	0	22	9
	1000	0	—	0	—	0	—	1	13	1	20	0	—	0	—	0	—	1	8	1	18	2	12	2	7	0	8	12
	850	1	20	1	13	0	—	0	—	0	—	1	14	0	—	0	—	1	24	1	11	1	20	1	33	0	7	19
	700	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	600	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	500	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	400	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	300	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	250	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	200	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	150	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	100	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	70	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	60	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	50	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	40	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	30	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
1200 U.T.	Surface	4	10	0	—	1	20	0	—	0	—	0	—	0	—	1	5	0	—	0	—	7	16	4	14	0	17	15
	1000	1	9	0	—	1	2	0	—	0	—	1	6	0	—	0	—	1	8	1	15	9	19	3	18	0	17	17
	850	1	10	0	—	0	—	0	—	1	23	0	—	0	—	1	18	1	22	5	15	4	16	4	16	0	17	16
	700	2	28	0	—	0	—	0	—	0	—	0	—	1	33	2	13	0	—	6	19	1	20	4	22	0	16	21
	600	0	—	0	—	0	—	0	—	0	—	0	—	0	—	2	25	3	24	2	27	5	21	3	32	0	15	23
	500	0	—	0	—	0	—	0	—	0	—	0	—	0	—	2	32	0	—	6	25	3	20	2	38	0	13	27
	400	0	—	0	—	0	—	0	—	0	—	0	—	0	—	2	52	2	34	3	23	3	28	2	40	0	12	35
	300	0	—	0	—	0	—	0	—	0	—	0	—	0	—	2	77	1	48	4	3	1	38	1	59	0	9	49
	250	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	75	4	46	3	3	1	65	0	—	0	9	47
	200	0	—	0	—	0	—	0	—	0	—	0	—	0	—	2	64	3	52	2	61	1	41	0	—	0	8	52
	150	0	—	0	—	0	—	0	—	0	—	0	—	0	—	2	33	3	57	1	43	1	60	0	—	0	7	50
	100	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	40	0	—	0	—	1	15	0	2	28	—	—
	70	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	60	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	50	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	40	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	30	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

N = The number of cases the wind has been observed from the range of direction during the month.

TN = The total number of cases the wind has been observed for all directions during the month.

**Table B3 NUMBER OF OCCURRENCES OF WIND DIRECTION WITHIN SPECIFIED RANGES AND THE MEAN SCALAR WIND SPEED AT THE STANDARD AND SELECTED PRESSURE SURFACES.
HELWAN — JUNE 1975**

Surf ace	Pressure surface (Mi ar)	Wind between ranges of direction (000—360°)												Number of cases winds	Mean scalar wind speeds	Total number of observations (TN)																					
		345			015			045			075			105			135			165			195			225			255			285			315		
		N	(ft) m	N	(ft) m	N	(ft) m	N	(ft) m	N	(ft) m	N	(ft) m	N	(ft) m	N	(ft) m	N	(ft) m	N	(ft) m	N	(ft) m	N	(ft) m	N	(ft) m	N	(ft) m								
0000 T.U.	Surface	10	07	8	11	3	12	3	10	0	—	0	—	0	—	0	—	1	03	0	—	0	—	5	09	0	30	09	0								
	1000	0	—	1	12	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0							
	850	7	20	5	21	5	16	0	—	0	—	0	—	1	70	0	—	1	13	1	23	6	24	7	19	0	26	17	0								
	700	7	24	4	31	0	—	0	—	0	—	0	—	0	—	0	—	0	—	3	26	7	28	9	19	0	26	23	0								
	600	5	25	2	24	0	—	0	—	0	—	0	—	0	—	1	04	0	—	6	131	10	25	5	25	0	26	24	0								
	500	3	28	1	20	0	—	0	—	0	—	0	—	0	—	3	30	5	30	9	38	3	25	0	25	31	0										
	400	5	28	0	—	0	—	0	—	0	—	0	—	0	—	4	36	6	43	9	53	4	31	0	25	46	0										
	300	2	27	0	—	0	—	0	—	0	—	0	—	0	—	6	42	5	60	8	51	3	72	0	23	52	0										
	250	1	22	0	—	0	—	0	—	0	—	0	—	0	—	1	32	4	48	7	55	6	77	2	70	0	20	60	0								
	200	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	40	2	18	5	56	3	66	1	46	0	14	49	0								
	150	0	—	0	—	0	—	0	—	0	—	0	—	0	—	3	40	2	18	5	56	3	66	1	59	0	07	42	0								
	100	0	—	0	—	0	—	0	—	0	—	0	—	4	38	0	—	2	43	0	—	1	59	0	—	0	—	0	—	0							
	70	0	—	0	—	0	—	0	—	0	—	2	24	2	18	0	—	1	04	0	—	0	—	0	—	0	—	0	—	0							
	60	0	—	0	—	0	—	0	—	0	—	2	22	3	15	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0							
	50	0	—	1	—	0	—	0	—	0	—	3	23	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0							
	40	0	—	0	—	0	—	0	—	2	26	0	—	1	30	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0							
	30	0	—	0	—	0	—	1	25	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0							
	20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—							
	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—							
1200 U.T.	Surface	5	16	5	12	0	—	0	—	0	—	0	—	0	—	1	05	0	—	5	09	2	10	12	09	0	30	11	0								
	1000	0	—	1	15	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	15	0							
	850	4	11	7	18	5	15	0	—	1	02	0	—	0	—	1	06	0	—	2	16	3	08	4	14	0	27	13	0								
	700	6	17	7	27	0	—	0	—	0	—	0	—	0	—	1	17	0	—	5	18	5	17	3	16	0	27	20	0								
	600	5	20	3	23	0	—	0	—	0	—	0	—	0	—	1	10	2	59	3	10	10	22	3	20	0	27	20	0								
	500	2	26	1	35	0	—	0	—	0	—	0	—	0	—	0	—	1	29	4	44	6	55	10	49	4	39	0	26	25	0						
	400	2	28	0	—	0	—	0	—	0	—	0	—	0	—	0	—	5	31	5	38	10	36	4	34	0	26	35	0								
	300	1	40	0	—	0	—	0	—	0	—	0	—	0	—	1	29	4	44	6	55	10	49	4	39	0	26	46	0								
	205	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	28	3	36	8	52	8	62	5	56	0	25	53	0								
	200	0	—	0	—	0	—	0	—	0	—	0	—	0	—	2	44	3	46	10	54	6	79	2	66	0	23	59	0								
	150	0	—	0	—	0	—	0	—	0	—	0	—	0	—	4	41	3	48	7	43	3	49	2	56	0	19	51	0								
	100	0	—	0	—	0	—	0	—	0	—	1	34	2	30	1	44	3	34	1	18	2	16	0	—	0	—	10	29								
	70	1	19	0	—	0	—	0	—	1	48	3	24	1	10	0	—	0	—	0	—	0	—	0	—	0	—	6	25								
	60	0	—	0	—	0	—	0	—	1	32	1	38	3	15	0	—	0	—	0	—	0	—	0	—	0	—	5	23								
	50	0	—	0	—	0	—	0	—	2	20	2	26	0	—	0	—	0	—	0	—	0	—	0	—	0	—	4	24								
	40	0	—	0	—	0	—	1	32	2	24	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	3	27								
	30	0	—	0	—	0	—	0	—	0	—	3	36	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—								
	20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—							
	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—							

N = The number of cases the wind has been observed from the range of direction during the month.

TN = The total number of cases the wind has been observed for all directions during the month.

Table B 3. (contd.)—NUMBER OF OCCURRENCES OF WIND DIRECTION WITHIN SPECIFIED RANGES AND THE MEAN SCALAR WIND SPEED AT THE STANDARD AND SELECTED PRESSURE SURFACES.

ASWAN (A) — Jane 1975

Time	Pressure Surface (Millibar)	Wind between ranges of direction (000—360) ^a												Number of Calm winds	Total Number of observation (TN)	Mean Scalar wind Speed (Knots)										
		345		015		045		075		105		135		165		195		225		255		285				
		014	(ff)	044	(ff)	074	(ff)	104	(ff)	134	(ff)	164	(ff)	194	(ff)	224	(ff)	254	(ff)	284	(ff)	314	(ff)			
		N	m	N	m	N	m	N	m	N	m	N	m	N	m	N	m	N	m	N	m	N	m			
0000 U.T.	Surface	22	12	1	12	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	5	12	28	12	
	1000	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	850	11	21	5	18	1	16	0	—	0	—	0	—	0	—	0	—	1	16	3	11	5	12	26	17	
	700	5	8	4	17	0	—	0	—	0	—	0	—	1	19	3	15	1	11	4	16	3	20	25	18	
	600	1	38	1	10	0	—	0	—	0	—	2	0	—	2	13	0	—	4	13	4	20	5	12	23	15
	500	2	25	2	10	0	—	0	—	0	—	1	5	0	—	0	—	4	16	6	12	5	10	3	13	
	400	0	—	1	13	0	—	4	8	0	—	0	—	0	—	4	15	3	12	4	23	2	12	5	23	
	300	0	—	0	—	0	—	1	9	3	11	0	—	1	18	3	22	9	25	5	29	1	38	0	—	
	250	0	—	0	—	0	—	0	—	4	18	1	19	1	16	3	22	6	32	6	29	1	39	0	—	
	200	0	—	0	—	0	—	0	—	3	23	2	17	2	32	2	29	6	33	4	25	1	21	0	—	
	150	0	—	0	—	1	46	0	—	2	31	2	27	2	37	2	34	2	26	1	22	2	32	0	—	
	100	0	—	0	—	0	—	0	—	3	35	1	20	0	—	1	12	0	—	0	—	0	—	5	27	
	70	0	—	0	—	0	—	0	—	0	—	1	17	0	—	0	—	0	—	•	—	0	—	1	17	
	60	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	50	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	40	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	30	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
1200 U.T.	Surface	16	9	0	—	0	—	0	—	0	—	0	—	0	—	1	8	0	—	0	—	3	13	7	9	
	1000	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	27	9	
	850	7	14	2	5	0	—	0	—	1	5	0	—	0	—	0	—	0	—	2	8	5	14	10	11	
	700	2	28	1	17	1	14	0	—	0	—	0	—	0	—	3	18	2	22	7	17	7	14	2	14	
	600	6	15	1	18	0	—	1	11	0	—	0	—	0	—	1	20	5	16	5	14	1	26	3	11	
	500	4	22	0	—	1	14	0	—	1	10	0	—	1	5	4	10	5	16	1	9	4	8	2	22	
	400	1	28	1	10	0	—	3	13	1	3	1	8	2	8	0	—	4	20	4	22	3	22	2	14	
	300	0	—	0	—	0	—	2	13	2	19	2	9	1	7	1	12	7	33	2	23	3	30	0	—	
	250	0	—	0	—	1	8	2	20	2	19	2	22	1	11	1	32	5	35	2	33	3	34	0	—	
	200	0	—	0	—	0	—	3	18	2	20	2	23	1	24	1	28	6	27	3	23	1	25	0	—	
	150	0	—	0	—	0	—	1	11	2	38	4	30	1	24	3	24	3	25	0	—	1	20	0	—	
	100	0	—	0	—	0	—	1	48	2	42	4	29	1	26	0	—	0	—	0	—	0	—	8	34	
	70	0	—	0	—	0	—	1	45	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	45	
	60	0	—	0	—	0	—	0	—	1	46	0	—	0	—	0	—	0	—	0	—	0	—	1	46	
	50	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	40	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	30	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		

N = The number of cases the wind has been observed from the range of direction during the month.

TN = The total number of cases the wind has been observed from all direction during the month.

REVIEW OF AGROMETEOROLOGICAL STATIONS

MERSA MATRUH — JUNE 1975

The mean daily air temperature and relative humidity were rather normal.

Weather during this month was characterized by four short heat waves in the periods : (1st - 3rd), (9th & 10th), 14th and 18th. The last wave yielded the highest maximum air temperature for the month (39.4°C). Apart from these heat waves mild summer weather was experienced.

The highest maximum soil temperatures were higher than last June at all depths except at 10 cm. where its value was lower by 0.1°C and at 20 cm: where its value was the same as last June, the departures varied between 1.0°C (at 5 cm.) and 0.2°C (at both 50 & 100 cm.) .

The lowest minimum soil temperatures were higher than last June at all depths except 10 & 100 cm. where the values were lower by 0.2°C ; the departures varied between 0.2°C (at 20 cm.) and 1.2°C (at 50 cm.).

The mean daily actual sunshine duration was higher than average by 0.2 hour. The mean daily wind speed at 1.5 met. height was higher than the corresponding value of June 1974 by 0.6 met./sec.

THARIR — JUNE 1975

This month was rather normal as regards the mean daily air temperature and relative humidity.

Weather was characterized by five variant heat waves in the periods (1st - 4th), 10th, (14 th), (18th 19th) and (26th & 27th). The fourth wave yielded both the highest maximum air temperature for the month (40.7°C) and the highest minimum air temperature (20.6°C) on the 19th. Apart from there heat waves mild summer weather was experienced.

The highest maximum soil temperatures were lower than average at all depths except at 10cm. where its value was higher than average; the departures varied between 0.1° and 0.6°C . The lowest minimum soil temperatures were higher than average at 2,20,50,100cm. depths with departures between 0.2°C (at 2 cm.) and 1.1°C (at 50 cm.) and lower than average at 5 and 10 cm depths by 0.5°C and 0.2°C respectively.

The mean daily actual sunshine duration, wind speed at 1.5 met. height and pan evaporation were slightly lower than average.

BAHTIM — JUNE 1975

The mean daily air temperature and relative humidity were slightly below average.

The month was intervened by four short heat waves in the periods (2nd - 4th), (14th & 15th), (18th & 19th) and (27th & 28th). The highest maximum air temperature for the month was 38.8°C (on the 19th). Apart from these heat waves mild summer weather was experienced. The lowest maximum air temperature was 30.0°C (on the 22nd).

The highest maximum soil temperatures were higher than average at all depths except at 50cm. where its value was the same as average; the departures varied between 4.3°C (at 5 cm.) and 0.2°C

(at 100 cm.). The lowest minimum soil temperatures were higher than average at all depths except at 5cm. where its value was lower than average by 0.3°C ; the departures varied between 0.5° and 1.1°C .

The mean daily actual sunshine duration, wind speed at 1.5 met. height and pan evaporation showed slight departures from the corresponding average values.

KHARGA — JUNE 1975

The mean daily air temperature and relative humidity were rather normal.

Weather during this month was characterized by five heat waves in the periods: (1th - 4th), (10th & 11th), (14th - 16th), (18th & 19th) and (27th - 29th).

The second wave yielded both the highest maximum air temperature (44.9°C) and the highest minimum air temperature (28.5°C) on the 11th. In the rest of the month mild summer weather prevailed.

The highest maximum soil temperature were higher than average at depths between 2 & 20 cm. with departures between 1.3°C (at 2 cm.) & 5.0°C (at 10 cm.); lower than average by 0.4°C at 50 cm. depth and the same as average at 100 cm.

The lowest minimum soil temperatures were higher than average at all depths except at 10cm. where its value was lower by 0.4°C ; the departures varied between 1.9°C (at 2 cm.) and 0.1°C (at 50 cm.)

The mean daily actual sunshine duration, wind speed at 1.5 met. height and pan evaporation were lower than average by 0.3 hour, 1.4 met./sec. and 3.74 mm. respectively.

**Table C 1.—AIR TEMPERATURE AT 1½ METRES ABOVE GROUND
JUNE—1975**

STATION	Air Temperature (°C)					Mean Duration in hours of daily air temperature above the following values										
	Mean Max.	Mean Min.	Mean of the day	Night time mean	Day time mean	-5°C	0°C	5°C	10°C	15°C	20°C	25°C	30°C	35°C	40°C	45°C
Mersa Matruh . . .	28.3	18.4	23.2	20.6	24.2	24.0	24.0	24.0	24.0	24.0	19.7	5.6	1.7	0.4	0.0	0.0
Tahrir	34.8	17.1	25.2	20.7	26.8	24.0	24.0	24.0	24.0	23.6	19.2	11.3	5.5	0.8	0.0	0.0
Bahtim	33.9	17.1	25.4	20.8	27.1	24.0	24.0	24.0	24.0	23.8	18.5	11.9	6.2	1.1	0.0	0.0
Kharga	39.2	23.5	32.2	29.3	33.4	24.0	24.0	24.0	24.0	24.0	23.9	22.2	15.2	7.9	2.1	0.0

**Table C 2.—EXTREME VALUES OF AIR TEMPERATURE AT 1½ METRES ABOVE GROUND,
ABSOLUTE MINIMUM AIR TEMPERATURE AT 5cms ABOVE GROUND OVER
DIFFERENT FIELDS.**

JUNE — 1975

STATION	Max. Temp. at 1½ metres (°C)				Min. Temp. at 1½ metres (°C)				Min. Temp. at 5 cms. above (°C)			
	Highest		Lowest		Highest		Lowest		Dry soil		Grass	
	Value	Date	Value	Date	Value	Date	Value	Date	Value	Date	Value	Date
Maruth	39.4	18	24.0	8	21.6	28	14.5	8	10.6	7	—	—
Tahrir	40.7	19	31.0	5	20.6	19.28	12.4	9	11.2	9	10.1	6
Bahim	38.6	19	30.0	22	22.0	15	13.7	9	10.0	9	9.4	6
Kharga	44.8	11	33.8	22	28.5	11	19.0	25	17.4	7.25	—	—

Table C 3.—(SOLAR + SKY) RADIATION, DURATION OF BRIGHT SUNSHINE, RELATIVE HUMIDITY, VAPOUR PRESSURE AT 1½ METRES ABOVE GROUND, EVAPORATION & RAINFALL.

JUNE — 1975

STATION	(Solar + Sky) Radiation Sun. rad./sq.m. hours	Duration of Bright Sunshine (hours)			Relative Humidity			Vapour pressure (mms)					Evaporation mm ² /day		Rainfall (mm)				
		Total monthly	Actual monthly	Total Possibly monthly	%	Mean of day	1200 U.T.	Lowest	Date	Mean of day	1200 U.T.	Highest	Date	Lowest	Date	Piche	Pan class A	Total Amount Monthly	Max. Fall in one day
Matruh	557.7	351.1	425.2	83	69	56	16	10	14.2	14.5	19.4	25	7.2	2	7.9	—	0.0	—	—
Tahrir	700.7	360.1	422.2	85	62	37	21	26	14.2	13.5	19.4	19.28	8.5	26	7.0	11.16	0.0	—	—
Bahim	662.0	347.2	421.7	85	53	30	13	19	12.1	11.2	17.5	30	6.5	4	11.6	12.69	0.0	—	—
Kharga	700.4	364.4	409.7	89	26	19	6	1	9.0	8.3	13.5	17	3.4	1	13.2	20.12	0.0	—	—

**Table C 4.—EXTREME SOIL TEMPERATURE AT DIFFERENT DEPTHS (cms)
IN DIFFERENT FIELDS**

JUNE 1975

STATION	Highest (H) Lowest (L)	Extreme soil temperature (°C) in dry field at different depths (cms.)									Extreme soil temperature (°C) in grass field at different depths (cms.)								
		2	5	10	20	50	100	200	300	2	5	10	20	50	100	200	300		
Mersa Matruh.	H	45.1	43.2	35.8	30.4	28.4	25.2	22.4	—	—	—	—	—	—	—	—	—	—	
	L	24.1	23.4	22.2	24.2	26.0	23.4	20.9	—	—	—	—	—	—	—	—	—	—	
Tahrir . . .	H	54.2	47.6	42.0	36.0	32.0	29.7	27.3	25.9	34.3	32.3	30.9	28.7	27.6	26.7	25.7	—	—	
	L	26.8	25.2	25.2	28.5	29.5	27.8	25.2	24.3	22.8	22.5	22.6	23.6	25.9	25.3	24.0	—	—	
Bahtim. . . .	H	59.3	49.6	40.4	34.0	30.3	28.2	25.7	24.3	38.0	31.4	29.0	27.1	25.3	23.8	21.7	—	—	
	L	28.5	26.1	27.1	29.4	28.3	26.2	24.2	23.6	20.6	20.4	21.1	22.6	23.6	22.2	20.6	—	—	
Kharga	H	59.5	53.0	48.9	40.2	34.0	31.8	29.2	28.2	—	—	—	—	—	—	—	—	—	
	L	22.6	25.1	28.1	31.8	31.7	30.5	27.8	27.4	—	—	—	—	—	—	—	—	—	

TABLE C 5.—SURFACE WIND

JUNE 1975

STATION	Wind Speed m/sec at 1½ metres			Days with surface wind speed at 10 metres							Max. Gust (knots) (10 metres)	
	Mean of the day	Night time mean	Day time mean	≥ 10 (knots)	≥ 15 (knots)	≥ 20 (knots)	≥ 25 (knots)	≥ 30 (knots)	≥ 35 (knots)	≥ 40 (knots)	Value (knots)	Date
Mersa Matruh	4.3	3.0	5.6	30	28	19	9	2	0	0	42	10
Tahrir . . .	2.3	1.6	3.1	29	17	2	0	0	0	0	27	19,22,24
Bahtim. . . .	2.9	1.8	3.9	30	15	2	0	0	0	0	29	21
Kharga	3.7	2.9	4.6	29	25	14	6	0	0	0	37	9

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THE EGYPTIAN METEOROLOGICAL AUTHORITY
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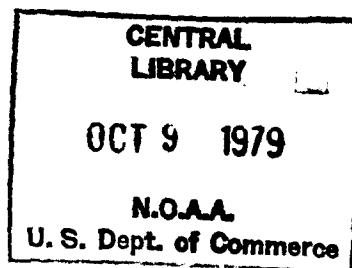
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PUBLICATIONS OF THE METEOROLOGICAL AUTHORITY OF THE ARAB REPUBLIC OF EGYPT—CAIRO

In fulfilment of its duties, the Egyptian Meteorological Authority issues several reports and publications on weather, climate and agro-meteorology. The principal publications are described on this page.

Orders for publications should be addressed to :

"Chairman of the Board of Directors, Meteorological Authority, Kubri-el-Qubbeh — CAIRO".

THE MONTHLY WEATHER REPORT

First issued in 1909, the Monthly Weather Report served to give a brief summary of the weather conditions that prevailed over Egypt during the month, with a table showing the mean values for few meteorological elements and their deviations from the normal values. From 1954 to 1957 this report was in a rapid state of development and extension resulting into a voluminous report on January 1958 giving surface, upper air, and agro-meteorological data for Egypt.

As from January 1964, the Monthly Weather Report was pressed to give climatological data for a representative selection of synoptic stations.

THE AGRO-METEOROLOGICAL ABRIDGED MONTHLY REPORT

Gives a review of weather experienced in the agro-meteorological stations of Egypt as well as monthly values of certain elements.

THE ANNUAL REPORT

This report gives annual values and statistics for the various meteorological elements, together with a summary of the weather conditions that prevailed during all months of the year.

CLIMATOLOGICAL NORMALS FOR EGYPT

A voluminous edition was issued in March 1968 which brings normals and mean values up till 1960.

METEOROLOGICAL RESEARCH BULLETIN

First issued in January 1969 on a bi-annual basis. It includes research works carried out by members of staff of "The Meteorological Institute for Research and Training" and the Operational Divisions of the Meteorological Authority.

TECHNICAL NOTES

As from October 1970, the Meteorological Authority started to issue a new series of publications in the form of Technical Notes (non periodical) on subjects related to studies and applications of meteorology in different fields for the benefit of personnel working in these fields.

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Note: For explanatory notes on the tables please refer to Volume 18 number 1 (January 1975).

GENERAL SUMMARY OF WEATHER CONDITIONS

JULY 1975

Normal summer weather intervened by four heat waves

PRESSURE DISTRIBUTION

As normal pressure distribution was mainly influenced by the extension of the complex Indian monsoon low over the Middle East, and the high pressure over the Mediterranean and its influence over Lower Egypt.

SURFACE WIND

Light to moderate N ly and NW ly winds prevailed most of the month. Winds freshened during some days in scattered places mainly in the Western Desert and Upper Egypt.

TEMPERATURE

This month was intervened by four light to moderate heat waves round the periods : (1st-3rd), (12th-13th), (19th-22nd) and (27th-29th). Otherwise, maximum air temperatures showed slight or moderate departures below normal.

Minimum air temperatures showed irregular slight or moderate departures from normal.

The highest and lowest maximum air temperatures were respectively 43.4°C at Qena on the 29th and 24.8°C at Sallum on the 4th.

The highest and lowest minimum air temperatures were respectively 30.7°C at Ras Benas on the 29th and 15.7°C at Tahrir on the 4th.

PRECIPITATION

No rain was reported.

OTHER WEATHER PHENOMENA

Early morning mist developed frequently over scattered places in Lower Egypt and Cairo area.

Chairman (A. F. HASSAN)

Board of Directors,

Cairo, March 1977

SURFACE DATA

**Table A 1.—MEAN VALUES OF THE ATMOSPHERIC PRESSURE, AIR TEMPERATURE,
RELATIVE HUMIDITY, BRIGHT SUNSHINE DURATION & PICHE EVAPORATION**

JULY— 1975

STATION	Atmospheric Pressure (mbs) M.S.L		Air Temperature °C								Relative Humidity %		Bright Sunshine Duration (Hours)			Piche Evaporation mm. Mean			
	Mean	D.F. Normal or Average	Maximum		Minimum		$\frac{A+B}{2}$	Dry Bulb		Wet Bulb		Mean	D.F. Normal or Average	Mean	D.F. Normal or Average	Total	Total	%	
			(A) Mean	D.F. Normal or Average	(B) Mean	D.F. Normal or Average		Mean	D.F. Normal or Average	Mean	D.F. Normal or Average					Total Actual	Total Possible	%	
Qalum	1009.8	-0.7	29.7	-1.1	21.3	0.0	25.5	25.3	-0.6	21.0	-0.2	68	+ 4	—	—	—	—	—	8.3
Marsa Matruh (A)	1009.5	-0.5	28.5	-0.6	20.0	-0.4	24.2	24.2	-0.7	21.1	-0.4	77	+ 4	383.6	433.7	88	4.9	—	
Alexandria . . (A)	1068.7	-0.9	30.0	+0.2	21.8	-0.8	25.9	25.5	-0.5	22.1	-0.2	74	+ 2	358.7	432.3	83	4.0	—	
Port Said . . (A)	1006.4	-1.2	31.0	+0.6	23.4	-0.6	27.2	26.5	+0.1	22.8	-0.2	72	0	366.1	432.3	85	4.3	—	
El Arish	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Ghazza	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Tanta	1007.4	-1.0	31.6	-2.6	19.3	+0.7	25.4	25.1	-1.1	21.6	+0.2	75	+12	362.4	431.5	84	3.7	—	
Cairo (A)	1067.6	-0.5	34.4	-0.6	22.4	+0.9	28.4	27.7	-0.1	21.4	-0.8	58	+ 4	—	—	—	—	12.1	
Fayoum	—	—	37.3	+0.6	21.0	-0.3	29.2	28.8	+0.2	21.2	+0.5	51	+ 5	—	—	—	—	9.0	
Minya . . . (A)	1007.4	+0.4	36.8	+0.1	20.3	+0.1	28.6	28.9	+0.5	20.4	+0.2	46	+ 2	414.3	425.5	97	12.5	—	
Asyout. . . (A)	1007.1	+0.3	36.4	-0.3	21.7	-0.5	29.0	29.5	-0.1	18.4	-1.1	32	- 3	—	—	—	—	20.0	
Luxor . . . (A)	1005.0	+0.1	39.7	-0.8	23.5	-0.1	31.6	31.8	-0.9	20.1	+0.2	31	+ 5	—	—	—	—	13.1	
Aswan . . . (A)	1005.1	+0.2	40.5	-0.7	25.7	+0.8	33.1	33.1	-0.4	18.5	+0.4	20	+ 4	387.9	415.5	93	26.7	—	
Siwa	1009.0	-0.7	36.9	-0.9	20.5	-0.3	28.7	28.9	-0.7	19.6	+0.2	41	+ 8	—	—	—	—	14.1	
Bahariya	1007.4	-0.9	37.2	+0.3	21.4	+0.7	29.3	29.4	-0.1	18.9	-0.6	36	+ 1	—	—	—	—	13.0	
Farafra	1008.9	-0.7	37.9	+0.8	22.0	+0.8	30.0	30.2	+0.6	17.9	+0.1	26	0	—	—	—	—	16.9	
Dakhla	1008.0	+0.4	37.3	-1.2	21.2	-1.6	29.2	29.7	-1.3	17.6	-0.7	27	+ 4	—	—	—	—	22.6	
Kharga	1006.1	-0.1	38.9	-0.4	23.8	+0.5	31.4	32.2	+0.4	18.0	-0.3	24	0	390.4	418.8	93	17.7	—	
Tor	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Hurghada	1004.3	-0.2	33.8	+0.9	26.3	+1.4	30.0	30.1	+0.6	21.9	+0.5	46	- 1	380.3	422.7	90	13.3	—	
Quseir	1004.9	-0.5	32.5	-1.1	26.3	-0.0	29.4	29.6	-0.5	22.5	+0.2	52	- 6	—	—	—	—	9.8	

Table A 2.—MAXIMUM & MINIMUM AIR TEMPERATURE

JULY — 1975

Station	Maximum Temperature						Grass Min. Temp.	Minimum Temperature °C											
	Highest	Date	Lowest	Date	Ns. of Days with Max-Temp.					Mean	Dev. From Normal	Highest	Date	Lowest	Date	No. of Days with Min. Temp.			
					>25	>30	>35	>40	>45							<10	<5	<0	<-5
Sallum	36.2	1	24.8	4	29	14	1	0	0	20.1		24.0	23.25,28	18.8	6	0	0	0	0
Marsa Matruh . . (A)	31.7	18	26.0	4	31	4	0	0	0	16.5		23.2	29	16.8	4	0	0	0	0
Alexandria . . . (A)	33.1	22	27.4	4	31	16	0	0	0	20.5		24.7	30	17.0	4	0	0	0	0
Port Said (A)	33.5	2	27.9	4	31	25	0	0	0	22.9		25.5	30	20.2	4	0	0	0	0
El Arish	—	—	—	—	—	—	—	—	—	—		—	—	—	—	—	—	—	—
Ghazza	—	—	—	—	—	—	—	—	—	—		—	—	—	—	—	—	—	—
Tanta	35.5	20	27.5	4	31	26	2	0	0	—		22.2	24	16.5	4	0	0	0	0
Cairo (A)	37.8	20	31.0	5	31	31	10	0	0	—		26.0	21	20.2	6	0	0	0	0
Yayouna	40.4	22	33.4	5	31	31	28	1	0	19.3		23.1	24	18.1	10	0	0	0	0
Minya (A)	40.7	22	32.0	5	31	31	28	2	0	17.5		23.4	25	18.0	2,11	0	0	0	0
Assyout (A)	40.5	21	31.0	5	31	31	22	2	0	19.9		25.0	23	19.4	6,9	0	0	0	0
Luxor (A)	42.2	21	36.0	5	31	31	15	0	0	16.4		25.8	30	20.6	6	0	0	0	0
Aswan (A)	42.6	22	37.0	9	31	31	19	0	—	—		27.5	30	23.2	6	0	0	0	0
Siva	39.5	2,20	33.3	4	31	31	28	0	0	19.1		23.2	28	17.5	4	0	0	0	0
Bahariya	40.4	2	32.8	5	31	31	28	1	0	20.6		25.0	22	18.9	6	0	0	0	0
Farafra	41.4	2	33.4	5	31	31	29	5	0	20.7		24.0	29	19.9	10	0	0	0	0
Dakhla	41.4	3	32.5	5	31	31	28	1	0	21.0		24.1	15	17.9	20	0	0	0	0
Kharga	42.0	3	34.2	5	31	31	30	8	0	21.6		27.4	30	18.8	12	0	0	0	0
Tor	—	—	—	—	—	—	—	—	—	—		—	—	—	—	—	—	—	—
Hurghada	37.0	22	30.3	6	31	31	5	0	0	23.1		29.0	23	23.6	5	0	0	0	0
Gusair	35.0	22	30.0	6	31	30	0	0	0	—		29.5	30	23.6	6	0	0	0	0

TABLE A 3.—SKY COVER AND RAINFALL

JULY—1975

Station	Mean Sky Cover (Oct)					Rainfall (mm)										
	00	06	12	18	Daily	Total	Dev. From	Max. Fall in one day		Number of days with Amount of Rain						
	U.T.	U.T.	U.T.	U.T.	Mean	Amount	Normal	Amount	Date	<0.1	≥0.1	≥1.0	≥5.0	≥10	≥25	≥50
Sallum	2.0	0.7	1.2	0.4	1.0	0.0	—Tr.	0.0	—	0	0	0	0	0	0	0
Marsa Matruh	(A)	1.2	1.9	0.5	1.6	0.0	0.0	0.0	—	0	0	0	0	0	0	0
Alexandria	(A)	2.0	2.7	2.0	1.8	2.1	0.0	—Tr.	0.3	—	0	0	0	0	0	0
Port Said	(A)	1.6	2.5	0.5	1.0	1.3	0.0	0.0	—	0	0	0	0	0	0	0
El Arish	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Ghaza	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tanta	0.2	2.0	0.7	0.0	0.7	0.0	—Tr.	0.0	—	0	0	0	0	0	0	0
Cairo	(A)	2.0	3.6	0.4	0.0	1.4	0.0	0.0	0.0	—	0	0	0	0	0	0
Fayoum	—	0.7	0.0	0.1	—	0.0	—Tr.	0.0	—	0	0	0	0	0	0	0
Minya	(A)	0.0	0.8	0.1	0.2	0.1	0.0	0.0	0.0	—	0	0	0	0	0	0
Asyout	(A)	0.0	0.1	0.0	0.0	0.0	0.0	0.0	—	0	0	0	0	0	0	0
Laxor	(A)	0.0	0.0	0.1	0.3	0.1	0.0	0.0	—	0	0	0	0	0	0	0
Aswan	(A)	0.0	0.0	0.1	0.1	0.0	0.0	0.0	—	0	0	0	0	0	0	0
Siwa	0.1	0.0	0.5	0.3	0.2	0.0	0.0	0.0	—	0	0	0	0	0	0	0
Bahariya	0.0	0.5	0.1	0.3	0.1	0.0	0.0	0.0	—	0	0	0	0	0	0	0
Farafra	—	0.0	0.1	0.0	—	0.0	0.0	0.0	—	0	0	0	0	0	0	0
Dakhla	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	—	0	0	0	0	0	0	0
Kharga	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	—	0	0	0	0	0	0	0
Tar	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hanuhada	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	—	0	0	0	0	0	0	0
Quseir	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	—	0	0	0	0	0	0	0

Table A 4.—DAYS OF OCCURRENCE OF MISCELLANEOUS WEATHER PHENOMENA

JULY - 1975

Table A 5.— NUMBER IN HOURS OF OCCURRENCES OF CONCURRET SURFACE
WIND SPEED AND DIRECTION RECORDED WITHIN SPECIFIED RANGES

JULY —1975

Station	Calm (hours)	Variable (hours)	Unrecorded (hours)	Wind speed in knots	Number in hours of occurrences of wind blowing from the ranges of directions indicated													
					345 / 014	015 / 044	045 / 074	075 / 104	105 / 134	135 / 164	165 / 194	195 / 224	225 / 254	255 / 284	285 / 314	315 / 344	All directions	
Sallum (A)	0	7	0	1—10	75	136	50	14	42	3	0	2	8	17	94	211	622	
				11—27	2	20	7	0	0	0	0	0	0	0	0	12	74	115
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥ 48	0	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	77	156	57	14	12	3	0	2	8	17	106	285	737	
Mersa Matruh . . (A)	4	0	0	1—10	13	7	3	3	0	0	1	7	56	138	114	148	490	
				11—27	2	0	0	0	0	0	0	0	0	0	9	97	142	250
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥ 48	0	0	0	0	0	0	0	0	0	0	0	0	0	0
				All Speeds	15	7	3	3	0	0	1	7	56	147	211	290	740	
Alexandria . . (A)	8	0	0	1—10	25	7	2	4	3	4	13	6	11	67	125	260	527	
				11—27	0	0	0	0	0	0	0	0	0	0	11	89	109	209
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥ 48	0	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	25	7	2	4	3	4	13	6	11	78	214	369	736	
Cairo (A)	55	1	28	1—10	85	53	20	7	5	1	0	0	0	11	71	164	113	530
				11—27	27	13	1	4	1	0	0	0	0	0	2	24	57	129
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥ 48	0	0	0	0	0	0	0	0	0	1	0	0	0	1
				All speeds	112	66	21	11	6	1	0	0	0	11	74	188	139	660
Fayoum (A)	2	4	0	1—10	354	201	16	1	3	2	8	6	9	23	22	86	731	
				11—27	0	7	0	0	0	0	0	0	0	0	0	0	0	7
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥ 48	0	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	354	208	16	1	3	2	8	6	9	23	22	86	738	
Minya (A)	44	4	0	1—10	241	246	11	2	3	7	10	1	5	2	3	44	575	
				11—27	24	97	0	0	0	0	0	0	0	0	0	0	0	121
				28—47	0	0	9	0	0	0	0	0	0	0	0	0	0	0
				≥ 48	0	9	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	265	343	11	3	3	7	10	1	5	2	3	44	696	
Assyout (A)	5	0	1	1—10	121	55	11	11	2	4	8	7	12	19	79	161	490	
				11—27	129	27	0	0	0	0	0	0	0	0	0	6	86	248
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥ 48	0	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	259	82	11	11	2	4	8	7	12	19	85	247	738	
Luxor (A)	79	0	0	1—10	62	23	5	3	5	11	33	54	80	122	166	93	657	
				11—27	0	0	0	0	0	0	0	0	0	0	0	2	6	8
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥ 48	0	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	62	23	5	3	5	11	3	54	80	122	168	99	655	

Table A 5 (contd.)—NUMBER IN HOURS OF OCCURRENCES OF CONCURRENT SURFACE WIND SPEED AND DIRECTION RECORDED WITHIN SPECIFIED RANGES

JULY — 1975

Station	Calm (hours)	Variable (hours)	Unrecorded (hours)	Wind speed in knots	Number in hours of occurrences of wind blowing from the ranges of directions indicated													
					345	015	045	075	105	135	165	195	225	255	285	315	345	All directions
					014	044	074	104	134	164	194	224	254	284	314	344	1	74 ^a
Aswan (A)	0	0	2	1—10	105	45	6	1	1	9	6	5	15	38	133	143	50 ^b	
				11—27	57	3	0	0	0	3	0	0	2	8	59	102	23 ^c	
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0	
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0	
				All speeds	163	48	6	1	1	12	6	5	17	47	192	245	74 ^d	
Siwa (A)	59	12	7	1—10	64	105	90	46	6	5	3	0	8	29	91	163	610	
				11—27	4	16	5	0	0	0	0	0	0	0	0	21	10	56
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	68	121	95	46	6	5	3	0	8	29	112	173	668	
Dakhla	0	0	0	1—10	59	21	6	3	2	6	3	11	53	85	133	264	646	
				11—27	18	3	0	0	0	1	0	0	0	0	0	10	65	98
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	77	24	6	3	2	7	3	11	53	85	143	230	744	
Kharga	1	0	0	1—10	232	60	18	12	13	10	5	7	8	16	78	207	666	
				11—27	33	16	0	0	0	0	0	0	0	0	1	1	26	77
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	265	76	18	12	13	10	5	7	8	17	79	233	743	
Hurghada	2	3	0	1—10	26	71	23	7	4	27	16	4	5	5	49	103	340	
				11—27	174	66	1	0	0	0	0	0	0	0	0	15	143	399
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	200	137	24	7	4	27	16	4	5	5	64	246	739	
Quseir	2	2	0	1—10	99	40	16	14	12	25	22	12	29	43	103	134	549	
				11—27	87	9	0	0	0	0	0	0	0	1	4	90	191	
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	186	49	16	14	12	25	22	13	29	44	107	224	740	

UPPER AIR CLIMATOLOGICAL DATA

Table B 1 (contd.)—MONTHLY MEANS, ABSOLUTE HIGHER AND LOWER VALUES OF ALTITUDE, AIR TEMPERATURE AND DEW POINT AT STANDARD AND SELECTED PRESSURE SURFACES

JULY — 1975

Station	Pressure Surface (Millibar)	Altitude of Pressure Surface (gpm)				Temperature (°C)				Dew Point (°C)	
		N	Mean	Highest	Lowest	N	Mean	Highest	Lowest	N	Mean
Mersa Matruh 0000 U.T.	Surface	29	1008mb.	1010mb.	1004mb.	29	23.7	26.2	20.6	29	18.6
	1000	29	98	117	63	29	22.7	25.2	19.5	29	18.5
	850	29	1500	1538	1464	29	17.4	23.0	11.2	29	1.1
	700	29	3134	3176	3084	29	8.7	12.7	4.0	29	-13.0
	600	29	4398	4459	4331	29	3.1	7.9	-4.9	29	-20.0
	500	28	5858	5917	5782	28	-4.3	0.2	-8.0	28	-26.2
	400	28	7587	7692	7491	28	-14.6	-8.0	-26.4	28	-34.6
	300	28	9715	9818	9586	28	-28.4	-21.3	-32.8	28	-45.8
	250	28	10997	11134	10861	28	-37.4	-31.3	-41.5	27	-53.2
	200	28	12503	12661	12361	28	-47.8	-41.9	-52.5	27	-61.8
	150	26	14362	14565	14201	26	-60.1	-54.2	-64.9	11	-72.9
	100	18	16827	17035	16675	18	-72.6	-62.0	-80.1	—	—
	70	5	19395	20150	18775	5	-87.0	-61.0	-71.0	—	—
	60	3	20773	21258	20000	3	-61.4	-59.7	-64.7	—	—
	50	1	21076	—	—	1	-61.1	—	—	—	—
	40	—	—	—	—	—	—	—	—	—	—
	30	—	—	—	—	—	—	—	—	—	—
	20	—	—	—	—	—	—	—	—	—	—
	10	—	—	—	—	—	—	—	—	—	—
Helwan 0000 U.T.	Surface	31	992m.b.	994m.b.	988m.b.	31	23.8	28.0	21.0	31	17.6
	1000	30	067	089	030	—	—	—	—	—	—
	850	30	1481	1615	1454	30	19.6	22.3	12.9	30	4.0
	700	30	3127	3162	3094	30	10.9	15.9	5.6	30	-8.4
	600	30	4400	4460	4353	30	5.1	10.0	1.7	30	-16.1
	500	30	5871	5941	5804	30	-2.2	0.1	-5.7	30	-21.9
	400	29	7611	7683	7531	29	-13.1	-10.2	-15.7	29	-30.5
	300	28	9739	9810	9656	28	-28.1	-25.0	-32.7	28	-43.3
	250	28	11026	11124	10949	28	-37.2	-34.0	-40.7	28	-51.0
	200	28	12535	12652	12461	28	-48.0	-44.3	-51.5	27	-59.9
	150	27	14384	14530	14304	27	-60.2	-56.4	-63.0	13	-68.2
	100	17	16826	16961	15736	17	-72.8	-70.0	-75.4	—	—
	70	12	19392	19081	18816	12	-70.4	-65.7	-74.0	—	—
	60	12	19008	20080	19800	12	-65.6	-59.4	-69.0	—	—
	50	11	20981	21148	20899	11	-62.5	-60.0	-64.7	—	—
	40	7	22478	22620	22304	7	-57.9	-55.9	-60.7	—	—
	30	5	24258	24388	24129	5	-55.0	-53.4	-57.4	—	—
	20	3	26904	27020	26811	3	-50.9	-49.1	-54.0	—	—
	10	—	—	—	—	—	—	—	—	—	—
Aswan 0000 U.T.	Surface	30	984m.b.	986m.b.	982m.b.	30	27.4	30.2	24.0	30	4.6
	1000	30	52	70	32	—	—	—	—	—	—
	850	30	1482	1503	1460	30	21.7	25.0	17.8	30	0.8
	700	30	3132	3182	3088	30	11.0	18.1	5.1	30	8.1
	600	30	4402	4476	4352	30	3.8	6.4	1.6	30	-14.9
	500	30	5859	5936	5805	30	-5.2	-1.0	-10.1	30	-23.4
	400	30	7579	7682	7534	30	-15.5	-12.5	-19.8	29	-32.8
	300	29	9689	9789	9632	29	-30.6	-27.7	-33.0	28	-45.6
	250	27	10956	11030	10890	26	-40.4	-38.5	-43.2	25	-53.4
	200	26	12445	12535	12394	25	-61.6	-48.7	-53.9	24	-60.4
	150	25	14258	14373	14179	25	-63.9	-60.6	-66.7	—	—
	100	14	16863	16815	16579	14	-78.7	-74.8	-79.7	—	—
	70	4	18739	18834	18659	4	-74.2	-70.6	-81.2	—	—
	60	2	19675	19710	19640	2	-68.6	-68.1	-69.2	—	—
	50	2	20721	20765	20678	2	-65.2	-63.7	-66.7	—	—
	40	2	22210	22260	22160	2	-60.7	-59.7	-61.7	—	—
	30	2	23912	23967	23858	2	-56.5	-55.3	-55.8	—	—
	20	2	26519	26587	26451	2	-53.2	-50.5	-55.9	—	—
	10	—	—	—	—	—	—	—	—	—	—

N — The number of cases the element has been observed during the month.

* The atmospheric pressure corrected to the elevation of the radiosonde station.

UPPER AIR CLIMATOLOGICAL DATA

**Table B 1.(contd.)—MONTHLY MEANS AND MONTHLY ABSOLUTE HIGHER & LOWER
VALUES OF ALTITUDE, AIR TEMPERATURE & DEW POINT AT
STANDARD AND SELECTED PRESSURE SURFACES**

JULY — 1975

Station	Pressure Surface (Millibar)	Altitude of Pressure Surface (gpm)				Temperature (°C)				Dew point (°C)	
		N	Mean	Highest	Lowest	N	Mean	Highest	Lowest	N	Mean
Marsa Matruh 'A) 1200 UT	Surface	31	•	*	*	31	27.4	29.4	25.4	31	18.8
	1000	31	97	116	64	31	26.4	29.2	23.8	31	17.5
	850	31	1509	1538	1486	31	17.8	21.5	13.0	31	-0.9
	700	31	3147	3195	3107	31	9.7	15.6	4.8	31	-13.1
	600	31	4416	4471	4358	31	4.1	8.5	-0.3	31	-20.0
	500	31	5875	5951	5708	31	-3.8	-0.5	-7.3	30	-26.6
	400	31	7612	7705	7514	31	-13.6	-8.8	-17.1	30	-34.5
	300	31	9746	9851	9644	31	-27.6	-21.0	-31.0	29	-45.5
	250	30	11032	11164	10930	30	-34.9	-33.0	-40.4	29	-54.0
	200	30	12510	12699	12426	30	-47.8	-44.4	-51.2	28	-63.0
	150	30	14394	14519	14262	30	-60.1	-53.2	-62.9	11	-73.1
	100	26	16846	16994	16712	26	-71.8	-64.6	-77.1	—	—
	70	14	18966	19188	18836	14	-68.8	-59.0	-80.0	—	—
	60	7	19890	20030	19800	7	-68.4	-60.0	-75.7	—	—
	50	6	20940	210'6	20811	6	-63.3	-56.6	-71.4	—	—
	40	3	22413	22460	22360	3	-55.0	-53.0	-58.3	—	—
	30	3	24188	24222	24132	3	-50.6	-48.5	-52.6	—	—
	20	—	—	—	—	—	—	—	—	—	—
	10	—	—	—	—	—	—	—	—	—	—
Helwan 1200 UT	Surface	31	*	*	*	31	33.3	38.2	29.0	31	13.2
	1000	27	991 m.b.	998 m.b.	988 m.b.	31	—	—	—	—	—
	850	26	1497	1534	1471	26	21.4	24.8	14.8	26	03.9
	700	25	3154	3103	3120	25	12.9	16.6	09.4	25	-11.0
	600	24	4437	4497	4394	24	7.4	12.8	3.9	24	-19.0
	500	23	5921	6001	5865	23	0.2	2.6	-5.2	23	-24.8
	400	21	7678	7762	7608	21	-10.4	-6.8	-14.0	21	-32.5
	300	21	9833	9943	9717	21	-24.8	-20.8	-30.2	21	-43.8
	250	21	11138	11272	10999	21	-32.9	-30.0	-37.7	21	-50.8
	200	19	12669	12827	12511	17	-43.6	-38.9	-47.3	17	-59.2
	150	19	14556	14737	14371	18	-55.9	-51.3	-60.7	16	-68.0
	100	18	17080	17302	16927	18	-67.0	-62.0	-73.1	1	-76.7
	70	15	19229	19501	19047	15	-61.6	-57.4	-70.3	—	—
	60	11	20223	20520	20050	11	-58.8	-54.4	-63.9	—	—
	50	11	21331	21652	21165	11	-54.4	-47.0	-62.9	—	—
	40	4	22768	22980	22660	4	-50.2	-46.5	-52.8	—	—
	30	4	24580	24813	24493	4	-44.3	-40.0	-50.1	—	—
	20	1	27252	—	—	1	-38.6	—	—	—	—
	10	—	—	—	—	—	—	—	—	—	—
Aswan 1200 UT	Surface	31	*	*	*	31	38.7	41.0	37.0	31	4.8
	1000	31	984 m.b.	986 m.b.	986 m.b.	31	—	—	—	—	—
	850	31	44	062	025	—	—	—	—	—	—
	700	30	1499	1521	1472	31	24.8	28.6	10.0	31	-4.3
	600	28	3162	3201	3133	30	12.6	17.3	7.4	30	-13.7
	500	25	4438	4485	4407	28	5.6	7.9	2.3	27	-20.0
	400	25	5905	5951	5874	25	-3.5	2.3	-8.0	25	-26.9
	300	23	7639	7696	7601	25	-13.4	-10.8	-16.1	25	-36.5
	250	23	9768	9856	9713	23	-28.6	-23.9	-31.3	23	-48.6
	200	21	11050	11164	10983	23	-37.9	-32.8	-41.0	23	-56.6
	150	19	12551	12706	12407	21	-49.2	-41.9	-51.9	21	-65.0
	100	16	14386	14610	14291	19	-61.7	-52.6	-65.0	1	-78.2
	70	7	16831	17154	16720	16	-73.8	-62.9	-80.1	—	—
	60	2	18975	19335	18809	7	-71.2	-63.8	-79.0	—	—
	50	2	20010	20320	19700	2	-64.1	-59.3	-69.0	—	—
	40	1	21143	21448	20839	2	-57.7	-52.9	-62.6	—	—
	30	—	23020	—	—	1	-43.7	—	—	—	—
	20	—	—	—	—	—	—	—	—	—	—
	10	—	—	—	—	—	—	—	—	—	—

N — The number of cases the element has been observed during the month.

* The atmosphere pressure corrected to the elevation of the radiosonde station

Table B 2.—MEAN AND EXTREME VALUES OF THE FREEZING LEVEL AND THE TROPOAUSE :
THE HIGHEST WIND SPEED IN THE UPPER AIR

JULY — 1975

STATION	Freezing Level									First Tropopause									Highest wind speed				
	Mean			Highest			Lowest			Mean			Highest			Lowest			Altitude (gpm)	Pressure (mb.)	Direction (000—360)*	Speed in knots	
	Altitude (gpm)	Pressure (mb.)	Dew Point (°C)	Altitude (gpm)	Pressure (mb.)	Dew Point (°C)	Altitude (gpm)	Pressure (mb.)	Dew Point (°C)	Altitude (gpm)	Pressure (mb.)	Temperature (°C)	Altitude (gpm)	Pressure (mb.)	Temperature (°C)	Altitude (gpm)	Pressure (mb.)	Temperature (°C)	Altitude (gpm)	Pressure (mb.)	Direction (000—360)*	Speed in knots	
0000 U.T.	(N)	(N)	(N)							(N)	(N)	(N)											
	Mersa Matruh . . .	4919 (29)	536 (29)	-21.8 (29)	5970	498	-31.7	3920	634	-9.8	16675 (2)	104 (2)	-707 (2)	17000	99	-70.0	16330	108	-70.8	2335	738	255	28
	Helwan . . .	5389 (30)	532 (20)	-20.0 (30)	5960	499	-16.8	4090	627	-9.1	17180 (15)	95 (15)	-740 (15)	18390	78	-75.5	15990	114	-70.2	15530	128	200	87
	Aswan . . .	5028 (30)	556 (30)	-17.9 (30)	5630	514	-21.4	4620	586	-11.0	16635 (3)	100 (3)	-73.5 (3)	17370	88	-76.4	15850	114	-76.8	16700	102	120	94
	(N)	(N)	(N)							(N)	(N)	(N)											
	Mersa Matruh . . .	5191 (31)	546 (31)	-23.7 (31)	5860	505	-28.0	4300	605	-23.5	16829 (9)	101 (9)	-73.7 (9)	18580	74	-79.5	15510	125	-70.0	8780	354	210	80
1200 U.T.	Helwan . . .	5944 (22)	500 (22)	-24.8 (22)	6180	472	-22.7	5180	517	-30.4	16784 (14)	105 (14)	-67.6 (14)	18100	83	-61.7	15590	129	-63.0	21480	048	170	65
	Aswan . . .	5426 (25)	535 (23)	-24.8 (28)	6250	483	-30.3	4700	280	-24.3	17324 (5)	95 (5)	-72.2 (5)	18780	077	-66.8	16250	111	-72.2	15650	121	120	67

N = The number of cases the element has been observed during the month.

Table B NUMBER OF OCCURRENCES OF WIND DIRECTION WITHIN SPECIFIED RANGES AND THE MEAN SCALAR WIND SPEED AT THE STANDARD AND SELECTED PRESSURE SURFACES
MERSA MATRUH JULY 1975

Pressure Surface (Millibar.)	Wind between specified ranges of direction (000—360)°													Number of calm winds	Total number of observations (TN)	Mean scalar wind speed (knots)												
	345		015		045		075		105		135		165		195		225		255		285							
	N	(ft)	N	(ft)	N	(ft)	N	(ft)	N	(ft)	N	(ft)	N	(ft)	N	(ft)	N	(ft)	N	(ft)	N	(ft)						
Surface	1	9	0	—	0	—	1	2	0	—	0	—	1	4	0	—	1	6	10	7	8	10	7	10	0	29	8	
1000	1	12	0	—	0	—	1	7	0	—	1	5	0	—	0	—	0	—	7	12	6	13	4	16	0	20	12	
850	3	12	0	—	0	—	0	—	0	—	1	4	0	—	1	6	0	—	4	16	8	13	2	10	0	19	12	
700	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
600	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
500	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
400	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
300	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
250	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
200	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
150	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
100	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
70	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
60	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
50	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
40	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
30	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
0000 T.U.	3	11	1	8	0	—	0	—	0	—	0	—	0	—	0	—	1	18	0	—	7	15	19	14	0	31	14	
	3	9	0	—	5	0	—	0	—	0	—	0	—	0	—	1	20	0	—	1	13	17	15	9	14	0	31	15
	1	5	1	5	0	—	2	4	0	—	0	—	0	—	0	—	2	17	11	10	10	11	6	12	0	31	11	
	3	8	0	—	0	—	0	—	0	—	0	—	0	—	0	—	3	21	8	11	7	11	6	15	1	31	12	
	2	8	0	—	0	—	0	—	0	—	0	—	0	—	1	6	6	11	9	11	5	7	6	14	1	31	10	
	2	10	0	—	0	—	0	—	0	—	0	—	0	—	3	9	8	17	12	14	1	15	4	18	0	30	14	
	0	—	0	—	0	—	0	—	0	—	0	—	0	—	9	21	8	17	7	20	2	10	3	17	0	29	19	
	1	5	0	—	0	—	0	—	0	—	0	—	0	—	1	9	10	18	9	26	4	20	2	26	1	36	0	
	1	8	0	—	0	—	0	—	0	—	0	—	0	—	0	—	7	28	8	29	5	20	0	—	0	27	24	
	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	17	3	12	5	23	4	17	2	24	0	0	25	
	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	5	17	5	26	4	17	2	24	0	0	20	
	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	2	25	3	13	0	—	0	0	0	0	19	
	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	5	1	15	0	—	0	0	0	0	13	
	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	4	15	
	1	21	2	15	1	10	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	0	0	4		
	3	16	0	—	1	49	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	0	0	4		
	3	26	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	0	0	3		
	0	—	1	25	2	22	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	0	0	3		
	1	28	2	19	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	0	0	3		
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
1200 U.T.	3	11	1	8	0	—	0	—	0	—	0	—	0	—	0	—	1	18	0	—	7	15	19	14	0	31	14	
	3	9	0	—	5	0	—	0	—	0	—	0	—	0	—	1	20	0	—	1	13	17	15	9	14	0	31	15
	1	5	1	5	0	—	2	4	0	—	0	—	0	—	0	—	2	17	11	10	10	11	6	12	0	31	11	
	3	8	0	—	0	—	0	—	0	—	0	—	0	—	0	—	3	21	8	11	7	11	6	15	1	31	12	
	2	10	0	—	0	—	0	—	0	—	0	—	0	—	0	—	3	15	6	11	9	11	5	7	6	14	1	
	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	9	21	8	17	7	20	2	10	3	17	0	
	1	5	0	—	0	—	0	—	0	—	0	—	0	—	0	—	10	18	9	26	4	20	2	26	1	36	0	
	1	8	0	—	0	—	0	—	0	—	0	—	0	—	0	—	7	28	8	29	5	20	0	—	0	27	24	
	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	5	17	5	26	4	17	2	24	0	0	25	
	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	2	25	3	13	0	—	0	0	0	0	19	
	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	5	1	15	0	—	0	0	0	0	13	
	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	0	0	0	4	
	3	16	0	—	1	49	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	0	0	4		
	3	26	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	0	0	3		
	0	—	1	25	2	22	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	0	0	3		
	1	28	2	19	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	0	0	3		
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	

N = The number of cases the wind has been observed from the range of direction during the month.

TN = The total number of cases the wind has been observed for all directions during the month.

Table B 3.—(contd.) NUMBER OF OCCURRENCES OF WIND DIRECTION WITHIN SPECIFIED RANGES AND THE MEAN SCALAR WIND SPEED AT THE STANDARD AND SELECTED PRESSURE SURFACES
HELWAN (A) — JULY 1975

Time	Pressure Surface (Millibar.)	Wind between ranges of direction (000—260°)														Number of Calm winds	Total Number of Observations (T.N.)	Mean Scalar wind speed (knots)								
		345 / 014		015 / 643		045 / 074		075 / 104		105 / 134		135 / 164		1 5 / 194		195 / 224		225 / 254		255 / 284		285 / 314				
		N m	(ft) m	N m	(ft) m	N m	(ft) m	N m	(ft) m	N m	(ft) m	N m	(ft) m	N m	(ft) m	N m	(ft) m	N m	(ft) m	N m	(ft) m	N m	(ft) m			
0000 T.U.	Surface	10	08	5	10	2	08	0	—	0	—	0	—	0	—	0	—	1	04	2	11	10	07	1	31	07
	1000	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	850	8	14	6	15	3	18	1	09	2	06	0	—	0	—	0	—	1	40	1	10	0	8	15	0	30
	700	6	10	6	11	1	13	0	—	0	—	2	08	0	—	1	10	3	15	3	15	2	12	6	10	30
	600	2	06	1	09	1	26	1	05	0	—	0	—	2	10	1	06	0	—	8	11	7	08	7	11	30
	500	0	—	1	11	0	—	0	—	0	—	1	02	0	—	0	—	9	15	7	15	5	09	6	13	29
	400	2	14	0	—	0	—	0	—	0	—	0	—	0	—	1	13	10	21	8	22	7	17	1	20	29
	300	0	—	0	—	0	—	0	—	0	—	0	—	1	10	3	20	7	26	4	25	11	18	2	12	28
	250	1	12	0	—	0	—	1	08	0	—	1	10	2	22	2	24	7	22	8	14	5	18	1	22	28
	200	1	13	1	12	1	09	0	—	2	12	1	16	0	—	6	29	5	24	6	20	1	16	2	19	23
	150	2	07	0	—	2	07	0	—	3	20	1	09	3	20	6	32	4	35	1	23	2	14	1	28	25
	100	1	19	0	—	0	—	0	—	3	23	2	22	4	19	4	32	1	12	0	—	0	—	0	15	23
	70	0	—	0	—	0	—	3	18	2	16	6	29	1	10	0	—	0	—	0	—	0	—	0	—	12
	60	0	—	0	—	0	—	0	—	7	31	2	42	0	—	0	—	0	—	0	—	0	—	0	—	9
	50	0	—	0	—	0	—	1	34	4	32	2	48	0	—	0	—	0	—	0	—	0	—	0	—	34
	40	0	—	0	—	2	1	1	32	4	34	0	—	0	—	0	—	0	—	0	—	0	—	0	—	7
	30	0	—	0	—	0	—	0	—	3	50	1	33	0	—	0	—	0	—	0	—	0	—	0	—	4
	20	0	—	0	—	0	—	0	—	1	63	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1
	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
1200 T.U.	Surface	6	11	2	11	0	—	0	—	0	—	0	—	0	—	0	—	2	6	5	8	15	11	1	31	10
	1000	—	—	5	10	2	14	0	—	1	8	1	5	0	—	0	—	0	—	5	8	5	9	0	—	
	850	7	11	5	10	2	14	0	—	1	8	1	5	0	—	0	—	0	—	5	8	5	9	0	26	
	700	2	10	3	17	1	7	1	8	0	—	1	3	1	11	3	5	2	18	5	14	5	9	0	24	
	600	2	11	2	14	0	—	0	—	1	5	0	—	1	3	0	—	6	14	6	13	4	17	2	10	24
	500	1	7	0	—	0	—	0	—	0	—	0	—	1	6	1	15	2	20	10	16	4	15	3	9	22
	400	0	—	1	4	0	—	0	—	0	—	0	—	0	—	2	10	5	23	2	20	9	23	21	19	
	300	0	—	0	—	0	—	1	5	0	—	0	—	0	—	1	21	5	20	6	21	6	18	2	16	21
	250	0	—	0	—	0	—	1	10	0	—	2	4	0	—	1	37	3	30	6	22	4	17	2	14	19
	200	1	26	1	10	1	7	0	—	0	—	1	10	1	5	2	28	5	21	4	18	0	—	2	27	0
	150	2	24	1	12	0	—	0	—	1	20	2	13	1	11	3	18	3	27	3	17	0	—	0	—	16
	100	0	—	0	—	1	11	0	—	3	38	3	32	4	24	1	12	1	44	0	—	0	—	0	—	13
	70	0	—	0	—	0	—	0	—	4	41	2	40	1	13	1	17	—	0	—	0	—	0	—	8	
	60	0	—	0	—	0	—	0	—	3	30	3	33	1	28	0	—	—	0	—	0	—	0	—	7	
	50	0	—	0	—	0	—	0	—	5	41	1	43	0	—	0	—	—	0	—	0	—	0	—	6	
	40	0	—	0	—	0	—	0	—	0	—	3	41	0	—	0	—	—	0	—	0	—	0	—	3	
	30	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		

N = The number of cases the wind has been observed from the range of direction during the month

TN — The total number of cases the wind has been observed during the month

Table B 3 (contd.)— NUMBER OF OCCURRENCES OF WIND DIRECTION WITHIN SPECIFIED RANGES AND THE MEAN SCALAR WIND SPEED AT THE STANDARD AND SELECTED PRESSURE SURFACES.
ASWAN (A) — JULY 1975

Station	Pressure Surface (Millibar)	Wind between specified ranges of direction (000—360) ^a													Number of obs. ^a in winds	Total number of observations (TN)	Mean speed wind speed (knots)											
		345 / 014		015 / 044		045 / 074		075 / 104		105 / 135		135 / 164		165 / 194		195 / 224		225 / 254		255 / 284		285 / 314						
		N	(ft) m	N	(ft) m	N	(ft) m	N	(ft) m	N	(ft) m	N	(ft) m	N	(ft) m	N	(ft) m	N	(ft) m	N	(ft) m							
0000 U.T.	Surface	11	13	1	10	0	—	0	—	0	—	0	—	0	—	0	—	0	—	2	11	16	10	0	30	10		
	1000	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
	850	1	18	2	11	0	—	0	—	0	—	0	—	0	—	0	—	8	18	7	14	11	16	0	29	14		
	700	1	.5	0	—	0	—	0	—	1	13	1	15	0	—	3	13	4	16	8	20	1	8	1	20	16		
	600	0	—	0	—	0	—	0	—	0	—	0	—	1	3	2	24	9	17	1	9	0	—	0	—	13		
	500	1	6	0	—	0	—	0	—	1	6	0	—	1	13	1	38	6	14	0	—	3	8	0	—	13		
	400	1	10	0	—	1	12	4	11	3	15	2	19	0	—	1	6	0	—	0	—	1	13	0	—	13		
	300	0	—	2	9	0	—	1	21	5	23	4	15	1	7	0	—	0	—	0	—	0	—	0	—	13		
	250	0	—	1	23	1	24	2	16	4	33	4	17	1	13	0	—	0	—	0	—	0	—	0	—	13		
	200	0	—	0	—	2	30	3	15	5	34	2	43	0	—	0	—	0	—	0	—	0	—	0	—	12		
	150	0	—	0	—	0	—	3	30	7	41	0	—	0	—	0	—	0	—	0	—	0	—	0	—	10		
	100	0	—	0	—	0	—	2	38	2	65	1	43	0	—	0	—	0	—	0	—	0	—	0	—	5		
	70	0	—	0	—	0	—	1	33	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	33		
	60	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
	50	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
	40	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
	30	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
	20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
1200 U.T.	Surface	2	14	1	5	0	—	1	10	0	—	0	—	2	10	1	12	0	—	8	13	8	12	8	12	0	31	12
	1000	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
	850	1	14	1	4	0	—	0	—	0	—	0	—	0	—	2	10	5	14	13	14	9	13	0	31	13		
	700	0	—	0	—	0	—	0	—	1	25	0	—	1	3	4	19	9	23	12	18	1	11	2	21	0	30	19
	600	0	—	0	—	0	—	0	—	0	—	4	21	13	21	6	17	2	22	0	—	0	—	0	—	25	20	
	500	0	—	0	—	0	—	0	—	4	8	1	10	4	20	8	11	4	8	1	7	2	10	1	9	0	25	11
	400	0	—	3	3	3	7	5	8	4	10	3	9	0	—	1	3	2	12	1	9	1	12	2	2	0	25	8
	300	0	—	1	6	2	10	6	18	8	19	3	11	0	—	0	—	0	—	1	8	0	—	1	17	0	22	16
	250	1	24	2	16	2	18	5	21	7	27	3	14	0	—	1	2	0	—	0	—	0	—	0	—	0	21	20
	200	1	16	0	—	2	31	8	25	7	17	1	36	0	—	0	—	0	—	0	—	0	—	0	—	19	22	
	150	0	—	1	42	1	37	5	27	4	30	3	31	0	—	0	—	0	—	0	—	0	—	0	—	14	31	
	100	0	—	0	—	1	40	3	50	1	28	0	—	0	—	0	—	0	—	0	—	0	—	0	—	5	44	
	70	0	—	0	—	0	—	2	45	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	2	45	
	60	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	50	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	40	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	30	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	

N — The number of cases the wind has been observed from the range of direction during the month.

TN — The total number of cases the wind has been observed for all directions during the month

REVIEW OF AGROMETEOROLOGICAL STATIONS

MERSA MATRUH — JULY 1975

The mean daily air temperature and relative humidity were rather normal.

Mild summer weather prevailed the whole month except on the 1st & 18th. The highest maximum for the month was 31.7°C (on the 18th).

The highest maximum soil temperatures were higher than last July at all depths except at 10 cm. where its value was lower by 0.2°C; the departures varied between 2.1°C; (at 2 cm.) and 0.5°C (at both 5 and 100 cm.). The lowest minimum soil temperatures were lower than last July at all depths except at 5 and 100 cm. where its value at both depths was higher by 0.3°C; the departures varied between 0.3°C (at 2 cm.) and 1.3°C (at 10 cm.).

The mean daily actual sunshine duration was slightly higher than normal. The mean daily wind speed at 1.5 met. height was slightly lower than the corresponding value of July 1974.

TAHRIR — JULY 1975

The mean daily air temperature and relative humidity were rather normal.

Weather during this month was characterized by four heat waves in the periods: (1st and 2nd), (12th-14th), (18th-23rd), (27th and 28th). The third wave yielded the highest maximum air temperature for the month (39.0°C) on the 20th. Apart from these heat waves mild summer weather was experienced.

The highest maximum soil temperatures were lower than normal at all depths between 2 and 20 cm. with departures between 1.3°C (at both 2 and 5 cm.) and 0.1°C (at 10 cm.); and slightly higher than normal (by 0.1° to 0.2°C) at 50 and 100 cm. depths. The lowest minimum soil temperatures were lower than normal at all depths except at 20 and 50 cm. depths were the values were higher than normal; all the departures were slight (0.1° to 0.4°C).

The mean daily actual sunshine duration, wind speed at 1:5 met. height and pan evaporation were slightly lower than normal.

BAHTIM — JULY 1975

The mean daily air temperature and relative humidity were rather normal.

Weather during this month was generally mild apart from a short heat wave on the 2nd yielding the highest maximum air temperature for the month (37.4°C) and another heat wave in the period (19th-22nd),

The highest maximum soil temperatures were higher than normal at all depths with departures between 4.0°C (at 2 cm.) and 0.4°C (at 100 cm.); The lowest minimum soil temperatures were slightly higher than normal (by 0.2° to 0.4°C) at 2, 5, 100 cm. depths, lower than normal by 0.4°C at 5 cm. and the same as normal at 10 and 20 cm. depths:

The mean daily wind speed at 1:5 met. height was nearly the same as normal. The mean daily actual sunshine duration and pan evaporation were slightly lower than normal.

KHARGA — JULY 1975

The mean daily air temperature and relative humidity were nearly the same as normal.

The month was intervened by three heat waves in the periods (2nd and 3rd), 14th and (19th-23rd); The first wave yielded the highest maximum air temperature for the month (42.0°C) on the 3rd. Apart from these waves, mild summer weather prevailed.

The highest maximum soil temperatures were higher than average at all depths except at 2 and 50 cm; where the values were slightly lower than normal (by 0.2° to 0.4°C); the deperatures varied between 2.0°C (at 10 cm.) and 0.2°C (at 100 cm.) The lowest minimum soil temperatures were slightly higher than normal (by 0.1° to 0.4°C) at all depths except at 10 and 50 cm: where the values were lower by 1.4°C and 0.1°C respectively.

The mean daily actual sunshine duration was slightly higher than normal. The mean daily wind speed at 1.5 met: height and pan evaporation were slightly lower than normal.

**Table C 1.—AIR TEMPERATURE AT 1½ METRES ABOVE GROUND
JULY—1975**

STATION	Air Temperature (°C)					Mean Duration in hours of daily air temperature above the following values											
	Mean Max.	Mean Min.	Mean of the day	Night time mean	Day time mean	—5°C	0°C	5°C	10°C	15°C	20°C	25°C	30°C	35°C	40°C	45°C	
Mersa Matruh . . .	23.5	20.1	24.3	22.1	26.0	24.0	24.0	24.0	24.0	24.0	22.6	10.2	0.0	0.0	0.0	0.0	
Tahrir	35.5	19.6	26.4	22.6	29.4	24.0	24.0	24.0	24.0	24.0	22.3	12.7	6.9	0.6	0.0	0.0	
Bahsim	33.5	19.1	25.9	21.2	28.9	24.0	24.0	24.0	24.0	24.0	21.8	13.4	6.1	0.3	0.0	0.0	
Kharga	38.9	23.8	32.3	29.2	35.0	24.0	24.0	24.0	24.0	24.0	23.9	22.4	15.6	8.2	0.7	0.0	

**Table C 2.—EXTREME VALUES OF AIR TEMPERATURE AT 1½ METRES ABOVE GROUND,
ABSOLUTE MINIMUM AIR TEMPERATURE AT 5cm ABOVE GROUND OVER
DIFFERENT FIELDS**

JULY — 1975

STATION	Max. Temp. at 1½ metres				Min. Temp. at 1½ metres				Min. Temp. at 5 cms. above			
	Highest		Lowest		Highest		Lowest		Dry soil		Grass	
	Value	Date	Value	Date	Value	Date	Value	Date	Value	Date	Value	Date
Mersa Matruh . . .	31.7	18	26.0	4	23.2	29	16.8	4	13.5	4	—	—
Tahrir	39.0	20	31.6	4	22.8	24	15.7	4	14.8	4	13.0	19
Bahsim	37.4	2	30.4	5	21.5	24	16.1	4	13.6	5	12.0	1
Kharga	42.0	3	31.2	5	27.4	30	18.8	12	17.3	12	—	—

Table C 3.—(SOLAR+SKY) RADIATION, DURATION OF BRIGHT SUNSHINE, RELATIVE HUMIDITY, VAPOUR PRESSURE AT 1½ METRES ABOVE GROUND, EVAPORATION & RAINFALL

JULY — 1975

STATION	(Solar+Sky) Radiation g.u. cal/cm ²	Duration of Bright Sunshine (hour.)			Relative Humidity				Vapour pressure (mms)					Evaporation (mms)		Rainfall (mms)			
		Total Actual monthly	Total Possible monthly	%	Mean of day	1200 U.T.	Lowest	Date	Mean of day	1200 U.T.	Highest	Date	Lowest	Date	Piche	pan class A	Total Amount Monthly	Max. fall in one day	Date
M. Matruh . . .	562.8	383.6	433.7	88	77	65	34	1	17.4	18.0	22.1	25	10.5	2	5.0	—	0.0	—	—
Tahrir . . .	678.0	373.6	431.3	87	70	44	24	20	17.4	16.4	21.8	25	11.2	19	5.0	10.21	0.0	—	—
Bahsim . . .	650.2	354.1	429.9	82	66	41	21	21	16.0	15.1	20.8	24.25	10.2	19	8.0	9.56	0.0	—	—
Kharga . . .	696.0	390.4	418.8	93	25	16	8	20	8.4	8.1	15.1	30	4.5	20	17.8	18.72	0.0	—	—

Table C 4.—EXTREME SOIL TEMPERATURE AT DIFFERENT DEPTHS (cms)
IN DIFFERENT FIELDS

JULY — 1975

STATION	Highest (H) Lowest (L)	Extreme soil temperature (°C) in dry field at different depths (cms.)								Extreme soil temperature (°C) in grass field at different depths (cms.)							
		2	5	10	20	50	100	200	300	2	5	10	20	50	100	200	300
Mersa Matruh.	H	45.0	41.5	36.0	33.4	30.4	27.2	24.4	—	—	—	—	—	—	—	—	—
	L	25.8	25.8	24.2	25.8	27.4	25.3	22.5	—	—	—	—	—	—	—	—	—
Tahrir	H	53.3	47.2	42.3	36.9	33.3	31.3	28.8	27.4	33.7	32.2	31.5	29.7	29.6	28.4	27.1	—
	L	27.9	27.0	27.2	30.4	31.1	29.9	27.4	26.1	24.5	24.5	24.5	25.3	27.1	26.7	26.8	—
Bahtim	H	59.0	49.4	41.1	35.4	32.2	30.0	27.1	25.8	40.6	33.7	31.6	30.0	27.5	25.7	22.9	—
	L	29.3	28.1	29.0	31.3	30.3	28.3	25.8	24.4	22.8	22.8	23.7	24.9	24.8	23.7	21.7	—
Kharga	H	57.6	51.7	45.9	39.8	34.9	33.2	30.4	29.0	—	—	—	—	—	—	—	—
	L	22.4	25.9	28.4	33.2	33.2	32.0	29.4	28.3	—	—	—	—	—	—	—	—

Table C 5.—SURFACE WIND

JULY — 1975

STATION	Wind Speed m/sec at 1½ metres			Days with surface wind speed at 10 metres							Max. Gust. (knots) at 10 metres	
	Mean of the day	Night time mean	day time mean	≥ 10 knots	≥ 15 knots	≥ 20 knots	≥ 25 knots	≥ 30 knots	≥ 35 knots	≥ 40 knots	value	Date
Mersa Matruh.	4.0	2.8	5.1	81	27	7	0	0	0	0	28	10
Tahrir	2.8	1.5	3.0	31	20	0	0	0	0	0	24	4.30
Bahtim	2.4	1.6	3.3	24	5	0	0	0	0	0	24	6
Kharga	2.7	1.8	3.7	28	16	4	0	0	0	0	29	2.13

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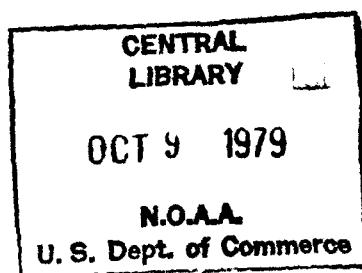
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THE EGYPTIAN METEOROLOGICAL AUTHORITY
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PUBLICATIONS OF THE METEOROLOGICAL AUTHORITY OF THE ARAB REPUBLIC OF EGYPT—CAIRO

In fulfilment of its duties, the Egyptian Meteorological Authority issues several reports and publications on weather, climate and agro-meteorology. The principal publications are described on this page.

Orders for publications should be addressed to :

"Chairman of the Board of Directors, Meteorological Authority, Kubri-el-Qubbeh — CAIRO".

THE MONTHLY WEATHER REPORT

First issued in 1909, the Monthly Weather Report served to give a brief summary of the weather conditions that prevailed over Egypt during the month, with a table showing the mean values for few meteorological elements and their deviations from the normal values. From 1954 to 1957 this report was in a rapid state of development and extension resulting into a voluminous report on January 1958 giving surface, upper air, and agro-meteorological data for Egypt.

As from January 1964, the Monthly Weather Report was pressed to give climatological data for a representative selection of synoptic stations.

THE AGRO-METEOROLOGICAL ABRIDGED MONTHLY REPORT

Gives a review of weather experienced in the agro-meteorological stations of Egypt as well as monthly values of certain elements.

THE ANNUAL REPORT

This report gives annual values and statistics for the various meteorological elements, together with a summary of the weather conditions that prevailed during all months of the year.

CLIMATOLOGICAL NORMALS FOR EGYPT

A voluminous edition was issued in March 1968 which brings normals and mean values up till 1960.

METEOROLOGICAL RESEARCH BULLETIN

First issued in January 1969 on a bi-annual basis. It includes research works carried out by members of staff of "The Meteorological Institute for Research and Training" and the Operational Divisions of the Meteorological Authority.

TECHNICAL NOTES

As from October 1970, the Meteorological Authority started to issue a new series of publications in the form of Technical Notes (non periodical) on subjects related to studies and applications of meteorology in different fields for the benefit of personnel working in these fields.

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For explanatory notes on the tables please refer to Volume 18 number 1 (January 1975).

GENERAL SUMMARY OF WEATHER CONDITIONS

AUGUST 1975

Mild summer in north, hot in south.

PRESSURE DISTRIBUTION

Pressure distribution was mainly influenced by the extension of the complex Indian monsoon low over Arabia & the Arabian gulf, and the high pressure over the Mediterranean & NE Africa.

SURFACE WIND

Light to moderate N ly and NW ly winds prevailed in general. Winds freshened during several days in scattered places mainly in the Western Desert, Upper Egypt and the Red Sea districts.

TEMPERATURE

Maximum air temperatures were generally below normal apart from two light

heat waves. Minimum air temperatures showed irregular slight to moderate departures from normal.

The highest and lowest maximum air temperatures reported were respectively 44.7°C at Qena on the 29th and 27.2°C at Sidi Barrani on the 18th.

The highest and lowest minimum air temperatures reported were respectively 27.9°C at Hurghada on the 31st and 14.7°C at Shebin El Kom on the 25th.

WEATHER PHENOMENA

No rain was reported.

Early morning mist developed during several days over scattered places in Delta & Cairo.

Rising sand was reported during few days in scattered places.

Cairo, March 1977

Chairman (A. F. HASSAN)

Board of Directors.

SURFACE DATA

Table A 1. — MONTHLY VALUES OF THE ATMOSPHERIC PRESSURE, AIR TEMPERATURE,
RELATIVE HUMIDITY, BRIGHT SUNSHINE DURATION & PICHE EVAPORATION.

AUGUST 1975

STATION	Atmospheric Pressure (mbs) M.S.L		Air Temperature °C								Relative Humidity %		Bright Sunshine Duration (Hours)			Piche Evap- ration mms Mean	
			Maximum		Minimum		$\frac{A+B}{2}$	Dry Bulb		Wet Bulb		Mean	D.F. Normal or Average	Total Actual	Total Possible	%	
	Mean	D.F. Normal or Average	(A) Mean	D.F. Normal or Average	(B) Mean	D.F. Normal or Average		Mean	D.F. Normal or Average	Mean	D.F. Normal or Average						
Sallum . . .	1011.3	+0.9	30.2	-0.6	21.9	+0.6	26.0	25.7	-0.2	21.5	+0.3	69	+5	—	—	—	8.1
Mersa Matruh (A)	1010.8	+0.6	28.8	-0.1	21.2	+0.2	25.0	24.9	-0.6	21.8	0.0	77	+5	370.3	412.4	90	5.7
Alexandria. (A)	1009.9	+0.9	30.3	-0.6	22.8	-0.1	26.6	26.1	-0.5	22.0	-0.8	70	-1	347.4	411.6	84	4.6
Port Said . . (A)	1007.9	-0.2	31.1	+0.3	23.7	-0.9	27.4	26.6	-0.7	22.4	-1.2	68	-4	349.1	411.6	85	4.4
El Arish . . .	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Ghazza . . .	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tanta	1008.6	0.0	31.1	-3.4	18.7	-0.4	24.9	24.4	-2.2	21.3	-0.7	77	+11	351.5	410.8	86	3.1
Cairo	1008.8	+0.2	33.1	-1.5	21.5	-0.3	27.3	26.8	-0.9	21.3	-0.4	63	+6	—	—	—	9.9
Fayoum . . .	—	—	35.9	-0.6	20.5	-1.0	28.2	27.7	-1.1	21.6	+0.2	59	+9	—	—	—	8.0
Minya . . . (A)	1008.6	+1.1	35.0	-1.4	20.1	-0.3	26.6	27.6	-0.6	20.6	-0.1	54	+4	309.7	407.0	91	12.3
Assyout . . . (A)	1008.0	+0.9	34.7	-2.1	21.0	-1.3	27.8	28.0	-2.0	18.8	-1.0	40	+4	—	—	—	18.3
Luxor . . . (A)	1005.6	+0.3	38.9	-2.0	23.1	-0.1	31.0	30.9	-1.8	20.1	+0.1	34	+8	—	—	—	12.1
Aswan . . . (A)	1005.7	+0.3	39.6	-1.7	24.9	+0.2	27.2	32.1	-1.4	18.5	+0.2	23	+7	371.0	401.0	93	24.8
Siwa	1010.1	+0.2	35.7	-2.0	20.9	+0.1	28.3	28.1	-1.6	20.4	+0.6	70	+14	—	—	—	13.7
Bahariya . . .	1008.8	+0.4	35.4	-1.5	21.0	0.0	28.2	28.1	-1.7	19.4	-0.5	47	+12	—	—	—	10.9
Farafra	1010.2	+0.7	36.6	-0.8	21.7	+0.6	29.6	29.0	-0.7	18.6	+0.5	34	+7	—	—	—	15.3
Dakha	1009.0	+1.2	36.5	-2.0	21.5	-1.1	29.0	29.4	-1.3	18.1	-0.3	30	+7	—	—	—	22.1
Kharga	1007.1	+0.5	37.5	-1.8	23.6	+0.8	30.6	31.3	-0.4	18.8	+0.3	30	+4	370.8	403.3	92	16.0
Tor. . . .	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hurghada . . .	1004.9	+0.2	32.7	-0.6	25.6	+0.5	29.2	29.4	-0.6	21.7	-0.3	50	+3	370.5	405.5	91	13.5
Quseir. . . .	1005.0	-0.4	31.6	-2.0	25.8	-1.0	28.7	28.7	-1.4	22.4	+0.1	56	+8	—	—	—	9.5

Table A 2.—MAXIMUM AND MINIMUM AIR TEMPERATURE

AUGUST — 1975

Station	Maximum Temperature °C					Mean	Grass Min. Temp.	Minimum Temperature °C					Dev. Fro	Normal	Highest	Date	Lowest	Date	No. of Days with Min. Temp.					
	Highest	Date	Lowest	Date	No. of Days with Max-Temp.					<10	<5	<0	<-5											
					>25	>30	>35	>40	>45															
Sallum	35.5	21	27.4	26	31	16	1	0	0	20.8	—	23.3	31	19.6	18	0	0	0	0					
Mersa Matruh (A)	30.4	28	27.8	17,22	31	1	0	0	0	19.9	—	24.0	30	18.6	19	0	0	0	0					
Alexandria . (A)	31.0	11,29	29.3	18,22	31	24	0	0	0	21.3	—	24.0	6,30	18.7	25	0	0	0	0					
Port said . . (A)	32.1	1	30.0	5	31	30	0	0	0	23.3	—	25.2	30	22.6	29	0	0	0	0					
El Arish	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—					
Ghazza	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—					
Tanta	32.7	17	29.4	8	31	24	0	0	0	—	—	21.0	31	16.5	25	0	0	0	0					
Cairo . . . (A)	35.8	29	31.2	25	31	31	3	0	0	—	—	23.9	17	19.6	18	0	0	0	0					
Fayoum	39.2	29	33.5	25	31	31	21	0	0	18.8	—	22.4	17	19.5	24,25	0	0	0	0					
Minya . . . (A)	37.4	29,31	33.4	26	31	31	13	0	0	18.8	—	21.8	21	18.4	15,25	0	0	0	0					
Assyout . . . (A)	37.8	31	32.8	8,10	31	31	10	0	0	18.8	—	22.4	3	19.2	6	0	0	0	0					
Luxor . . . (A)	42.6	29	36.2	11	31	31	31	9	0	16.4	—	25.2	4	21.1	16	0	0	0	0					
Aswan . . . (A)	43.0	27,28	36.7	10	31	31	31	10	0	—	—	26.5	31	23.0	25	0	0	0	0					
Siwa	41.0	29	33.4	11	31	31	19	1	0	18.5	—	22.5	22	18.3	28	0	0	0	0					
Bahariya	39.4	29	33.2	12	31	31	17	0	0	20.4	—	22.8	17	19.0	28	0	0	0	0					
Farafra	39.9	29	35.0	8	31	31	30	0	0	20.5	—	23.8	18	19.8	13	0	0	0	0					
Dakhla	39.5	29	34.6	8	31	31	29	0	0	21.4	—	24.1	31	18.0	08	0	0	0	0					
Kharga	40.6	29	35.5	8	31	31	31	1	0	21.5	—	27.2	21	19.0	16	0	0	0	0					
Tor	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—					
Hurghada	36.2	1,29	31.5	8,15	31	31	2	0	0	25.6	—	27.9	31	28.6	17	0	0	0	0					
Quseir	33.2	2	30.5	9,15	31	31	0	0	0	22.9	—	27.7	4,30	24.2	21	0	0	0	0					

Table A 3.—SKY COVER AND RAINFALL

AUGUST 1975

Station	Mean Sky Cover oct.					Toal Amount	Dev. From Normal	Max. Fall in one Day	Rain Fall mms.								
	00 U.T.	06 U.T.	12 U.T.	18 U.T.	Daily Mean				Number of Days with Amount of Rain		<0.1	>0.1	≥1.0	≤5.0	10	≥25	50
									Date	Amount							
Sallum	2.6	1.5	2.8	1.0	2.0	0.0	— 0.0	0.0	—	—	0	0	0	0	0	0	0
Mersa Matruh . . (A)	2.4	3.0	2.1	2.9	2.6	0.0	— 0.0	0.0	—	—	0	0	0	0	0	0	0
Alexandria . . . (A)	2.4	3.3	3.2	2.8	2.9	0.	— 0.3	0.0	—	—	0	0	0	0	0	0	0
Port Said (A)	0.0	0.8	1.1	0.0	0.9	0.0	— Tr.	0.0	—	—	0	0	0	0	0	0	0
El Arish	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Ghazza	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tanta	0.0	0.8	1.7	0.0	0.9	0.0	— 0.0	0.0	—	—	0	0	0	0	0	0	0
Cairo (A)	2.3	3.0	1.1	0.2	1.6	0.0	— Tr.	0.0	—	—	0	0	0	0	0	0	0
Fayoum	—	1.3	0.1	0.2	—	0.0	— 0.0	0.0	—	—	0	0	0	0	0	0	0
Minya	0.0	1.1	0.1	0.0	0.3	0.0	— Tr.	0.0	—	—	0	0	0	0	0	0	0
Assyout (A)	0.0	0.0	0.0	0.0	0.0	0.0	— Tr.	0.0	—	—	0	0	0	0	0	0	0
Luxor (A)	0.1	0.3	0.4	0.3	0.3	0.0	— Tr.	0.0	—	—	0	0	0	0	0	0	0
Aswan (A)	0.0	0.2	0.3	0.1	0.1	0.0	— Tr.	0.0	—	—	0	0	0	0	0	0	0
Siwa	1.4	0.7	1.3	1.4	1.2	0.0	— 0.0	0.0	—	—	0	0	0	0	0	0	0
Bahariya	0.0	0.9	0.4	0.2	0.4	0.0	— 0.0	0.0	—	—	0	0	0	0	0	0	0
Farafra	—	0.1	0.8	0.2	—	0.0	— 0.0	0.0	—	—	0	0	0	0	0	0	0
Dakhla	0.0	0.0	0.0	0.0	0.0	0.0	— 0.0	0.0	—	—	0	0	0	0	0	0	0
Kha.ga	0.0	0.0	0.2	0.1	0.1	0.0	— Tr.	0.0	—	—	0	0	0	0	0	0	0
Tor	—	—	—	—	—	—	*	—	—	—	—	—	—	—	—	—	—
Hurghada	0.0	0.2	0.6	0.3	0.3	0.0	— 0.0	0.0	—	—	0	0	0	0	0	0	0
Quseir	0.0	0.2	0.4	0.3	0.2	0.0	— 0.0	0.0	—	—	0	0	0	0	0	0	0

Table A 4. --DAYS OF OCCURRENCE OF MISCELLANEOUS WEATHER PHENOMENA.

AUGUST — 1975

Station	Precipitation				Frost	Thunderstorm	Mist Vis ≥ 1000 metres	Fog Vis < 1000 Metres	Haze Vis > 1000 Metres	Thick Haze Vis < 1000 Metres	Dust or Sandstorm Vis ≥ 1000 Metres	Dust or Sandstorm Vis < 1000 Metres	Gale	Clear	Cloudy	
	Rain	Snow	Ice. Pellets	Hail										Sky	Sky	
Sallum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15	0
Mersa Matruh (A)	0	0	0	0	0	0	16	0	7	0	5	0	0	0	10	0
Alexandria (A)	0	0	0	0	0	0	0	0	0	0	1	0	0	0	7	0
Port Said (A)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15	0
El Arish	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Ghazza	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tanta	0	0	0	0	0	0	18	0	0	0	0	0	0	0	29	0
Cairo (A)	0	0	0	0	0	0	24	2	1	0	1	0	0	0	18	0
Fayoum (A)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	—	—
Minya (A)	0	0	0	0	0	0	10	0	4	0	0	0	0	0	31	0
Assyout (A)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31	0
Luxor (A)	0	0	0	0	0	0	0	0	2	0	3	0	0	0	29	0
Aswan (A)	0	0	0	0	0	0	0	0	0	5	5	0	0	0	31	0
Siwa	0	0	0	0	0	0	0	0	0	0	1	0	0	0	21	0
Bahariya	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31	0
Farafra	0	0	0	0	0	0	0	0	0	0	1	0	0	0	31	0
Dakhla	0	0	0	0	0	0	0	0	0	3	0	0	0	0	31	0
Kharga	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31	0
Tor	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hurghada	0	0	0	0	0	0	0	0	0	0	15	0	0	0	30	0
Quseir	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31	0

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TABLE A 5.—NUMBER IN HOURS OF OCCURRENCES OF CONCURRENT SURFACE WIND SPEED AND DIRECTION RECORDED WITHIN SPECIFIED RANGES

AUGUST 1975

Station	Calm (hours)	Variable (hours)	Unrecorded (hours)	Wind speed in knots	Number in hours of occurrences of wind blowing from the ranges of directions indicated													
					345	015	045	075	105	135	165	195	225	255	285	315	All directions	
					/	/	/	104	134	164	194	224	254	284	314	344		
Ballum	0	0	0	1—10	52	67	30	12	8	0	1	0	1	16	13	235	525	
				11—27	12	52	26	0	0	0	0	0	0	0	0	26	103	219
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	64	119	56	12	8	0	1	0	1	16	129	338	744	
Mersa Matruh (A)	8	0	0	1—10	34	14	2	0	0	0	0	4	59	88	81	127	409	
				11—27	13	3	0	0	0	0	0	0	0	0	0	125	186	327
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	47	17	2	0	0	0	0	4	59	88	206	313	736	
Alexandria . . (A)	5	0	0	1—10	52	1	0	2	0	0	2	4	1	21	117	388	568	
				11—27	3	0	0	0	0	0	0	0	0	0	8	56	104	171
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	55	1	0	2	0	0	2	4	1	29	173	412	739	
Tanta	17	0	2	1—10	116	26	6	0	0	0	3	12	89	86	129	168	635	
				11—27	28	0	0	0	0	0	0	0	0	0	0	8	59	90
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	144	26	6	0	0	0	3	12	89	86	132	227	725	
Cairo . . . (A)	102	0	13	1—10	96	69	19	3	0	0	0	0	1	48	114	172	517	
				11—27	26	2	0	0	0	0	0	0	0	0	0	27	57	112
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	122	71	19	3	0	0	0	0	1	43	141	229	629	
Fayoum . . .	1	1	7	1—10	331	304	2	0	0	0	2	0	4	5	11	75	784	
				11—27	0	1	0	0	0	0	0	0	0	0	0	0	0	1
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	331	305	2	0	0	0	2	0	4	5	11	75	785	
Minya . . . (A)	25	0	0	1—10	292	247	8	0	0	0	0	1	0	1	1	15	560	
				11—27	34	125	0	0	0	0	0	0	0	0	0	0	0	159
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	326	372	3	0	0	0	0	1	0	1	1	15	719	
Asyout . . . (A)	35	0	0	1—10	191	31	1	0	0	0	0	0	0	3	36	170	432	
				11—27	171	11	0	0	0	0	0	0	0	0	1	94	277	
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	362	42	1	0	0	0	0	0	0	0	3	37	264	709
Luxor . . . (A)	90	0	0	1—10	60	8	1	2	3	8	40	73	61	109	154	82	601	
				11—27	12	0	0	0	0	0	0	0	0	0	2	10	29	53
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	72	8	1	2	3	8	40	73	61	111	164	111	654	

Table A 5 (cont.)—NUMBER IN HOURS OF OCCURRENCES OF CONCURRENT SURFACE WIND SPEED AND DIRECTION RECORDED WITHIN SPECIFIED RANGES

AUGUST — 1975

Station	Calm (hours)	Variable (hours)	Unrecorded (hours)	Wind speed in knots	Number in hours of occurrences of wind blowing from the ranges of directions indicated													
					345 /	015 /	045 044	075 /	105 104	135 134	165 164	195 194	225 224	255 254	285 284	315 314	All directions 344	
					014	044	074	104	134	164	194	224	254	284	314	344	All directions	
Aswan	0	5	2	1—10	175	26	0	1	0	5	11	6	7	52	86	204	573	
				11—27	73	2	0	0	0	4	0	0	0	0	0	9	76	164
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	248	28	0	1	0	9	11	6	7	52	95	280	737	
Siwa	27	8	1	1—10	75	120	71	41	24	11	2	3	4	20	51	155	580	
				11—27	21	47	5	0	0	0	0	0	0	0	0	6	49	128
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	96	167	79	41	24	11	2	3	4	20	57	204	708	
Dakhla	0	0	0	1—10	120	15	3	2	2	4	7	21	22	48	113	303	660	
				11—27	24	1	0	0	0	0	0	0	0	0	0	1	58	84
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	144	16	3	2	2	4	7	21	22	48	114	361	744	
Kharga	1	3	0	1—10	270	45	11	3	2	1	6	2	1	3	32	109	485	
				11—27	162	15	0	0	1	0	0	0	0	0	0	0	77	255
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	432	60	11	3	3	1	6	2	1	3	32	186	740	
Hurghada	3	0	0	1—10	24	31	9	2	2	6	5	1	1	6	43	91	231	
				11—27	195	49	0	0	0	0	2	2	0	0	0	27	245	520
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	219	80	9	2	2	6	7	3	1	6	70	336	741	
Quseir	1	4	0	1—10	99	25	10	6	7	9	18	12	11	58	116	127	498	
				11—27	106	6	0	0	0	0	0	0	0	0	0	5	124	241
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	205	31	10	6	7	9	18	12	11	58	121	251	739	

UPPER AIR CLIMATOLOGICAL DATA

Table B 1.—MONTHLY MEAN AND MONTHLY ABSOLUTE HIGHER AND LOWER
VALUES OF ALTITUDE, AIR TEMPERATURE AND DEW POINT AT
STANDARD AND SELECTED PRESSURE SURFACES

AUGUST—1975

Station	Pressure Surface (Millibar)	Altitude of Pressure Surface (gpm)				Temperature (°C)				Dew Point (°C)	
		N	Mean	Highest	Lowest	N	Mean	Highest	Lowest	N	Mean
Mores Mafreh 0000 U.T.	Surface . . .	31	1009m.b.	1011m.b.	1007m.b.	31	24.4	25.4	21.6	31	17.9
	1000 . . .	31	107	124	87	31	23.7	24.7	22.0	31	18.3
	850 . . .	31	1507	1547	1439	31	16.4	21.6	7.0	31	0.7
	700 . . .	31	3146	3203	3106	31	10.0	14.0	5.7	31	-14.7
	600 . . .	31	4411	4479	4349	31	3.4	7.5	-0.1	30	-20.1
	500 . . .	31	5865	5951	5748	31	-4.8	-1.0	-7.9	30	-27.4
	400 . . .	31	7589	7697	7483	31	-14.5	-8.8	-20.7	30	-35.7
	300 . . .	30	9711	9882	907	30	-28.9	-20.0	-34.7	29	-47.2
	250 . . .	29	10987	11212	108.2	29	-38.4	-28.0	-48.7	28	-54.6
	200 . . .	29	12492	12784	12348	29	-48.1	-37.1	-54.3	27	-60.8
	150 . . .	25	14336	14729	14113	25	-60.7	-47.7	-64.9	9	-73.0
	100 . . .	22	16786	17327	16554	22	-72.4	-60.7	-79.5	—	—
	70 . . .	10	18911	19495	18648	10	-69.7	-73.5	-80.0	—	—
	60 . . .	7	20034	21420	19600	7	-65.2	-60.0	-75.0	—	—
	50 . . .	6	21156	22450	20687	6	-63.3	-56.1	-75.9	—	—
	40 . . .	5	22874	23850	22100	5	-60.8	-52.5	-73.0	—	—
	30 . . .	4	24249	24443	23962	4	-57.0	-52.0	-69.7	—	—
	20 . . .	1	26885	—	—	1	-65.0	—	—	—	—
	10 . . .	—	—	—	—	—	—	—	—	—	—
Helwan 0000 U.T.	Surface . . .	31	* 993m.b.	* 995m.b.	* 991m.b.	31	22.7	24.4	21.6	31	18.4
	1000 . . .	30	79	97	59	—	—	—	—	—	—
	850 . . .	30	1485	1510	1458	30	18.3	24.4	8.5	30	4.9
	700 . . .	30	3130	3159	3099	30	10.9	14.6	7.5	30	-5.2
	600 . . .	29	4402	4446	4365	29	5.2	7.2	3.3	29	-12.1
	500 . . .	29	5873	5921	5790	29	-2.2	1.1	-9.2	29	-18.7
	400 . . .	29	7613	7602	7491	29	-13.1	-10.0	-17.8	29	-27.9
	300 . . .	29	9747	9815	9601	29	-27.6	-25.4	-31.9	29	-40.0
	250 . . .	28	11038	11113	10881	28	-36.5	-33.9	-41.9	28	-48.2
	200 . . .	28	12552	12632	12385	28	-47.0	-43.7	-52.0	28	-57.4
	150 . . .	26	14402	14478	14234	26	-59.6	-55.9	-64.3	15	-66.8
	100 . . .	22	16858	16968	16658	22	-72.2	-68.2	-78.9	—	—
	70 . . .	18	18887	19069	18811	18	-69.1	-61.7	-73.1	—	—
	60 . . .	17	19907	20050	19740	17	-65.7	-59.8	-68.5	—	—
	50 . . .	17	20982	21104	20896	17	-61.6	-55.4	-64.2	—	—
	40 . . .	13	22470	22300	22400	13	-58.8	-57.0	-61.1	—	—
	30 . . .	12	24207	24342	24131	12	-56.0	-53.5	-59.0	—	—
	20 . . .	—	—	—	—	—	—	—	—	—	—
	10 . . .	—	—	—	—	—	—	—	—	—	—
Arwan 0000 U.T.	Surface . . .	29	* 985m.b.	* 987m.b.	* 980m.b.	29	27.1	29.5	24.8	29	8.3
	1000 . . .	29	58	78	14	—	—	—	—	—	—
	850 . . .	29	1488	1512	1459	29	22.0	26.8	18.0	29	1.9
	700 . . .	28	3142	3195	3106	28	11.8	17.2	5.7	28	-7.3
	600 . . .	27	4415	4489	4373	27	4.7	7.6	1.3	27	-13.6
	500 . . .	27	5880	5962	5845	27	-4.0	-0.5	-8.0	27	-20.0
	400 . . .	27	7605	7701	7559	27	-15.4	-12.1	-25.1	27	-30.6
	300 . . .	27	9723	9853	9619	27	-28.2	-23.7	-33.4	26	-43.4
	250 . . .	27	11000	11106	10887	27	-37.6	-31.4	-41.8	26	-49.5
	200 . . .	26	12499	12719	12375	26	-50.0	-40.1	-52.5	26	-61.7
	150 . . .	22	14332	14639	14212	22	-63.1	-50.8	-67.2	10	-63.1
	100 . . .	10	16786	17199	16726	10	-79.7	-64.8	-83.9	—	—
	70 . . .	1	18763	—	—	1	-82.3	—	—	—	—
	60 . . .	—	—	—	—	—	—	—	—	—	—
	50 . . .	—	—	—	—	—	—	—	—	—	—
	40 . . .	—	—	—	—	—	—	—	—	—	—
	30 . . .	—	—	—	—	—	—	—	—	—	—
	20 . . .	—	—	—	—	—	—	—	—	—	—
	10 . . .	—	—	—	—	—	—	—	—	—	—

N = The number of cases the element has been observed during the month.

* The atmospheric pressure corrected to the elevation of the radiosonde station.

UPPER AIR CLIMATOLOGICAL DATA

Table B 1 (contd.)—MONTHLY MEANS, ABSOLUTE HIGHER AND LOWER VALUES OF ALTITUDE, AIR TEMPERATURE AND DEW POINT AT STANDARD AND SELECTED PRESSURE SURFACES

AUGUST — 1975

Station	Pressure Surface Millibar	Altitude of Pressure Surface (gpm)				Temperature (°C)				Dew Point (°C)	
		N	Mean	Highest	Lowest	N	Mean	Highest	Lowest	N	Mean
Mersa Matruh (A) 1200 U.T.	Surface	30	1009mb.*	1011mb.*	1097mb.*	30	28.0	29.1	26.8	30	18.0
	1000	30	109	132	090	30	26.9	28.2	25.8	30	18.0
	850	30	1518	1542	1494	30	18.1	26.3	12.7	30	2.7
	700	29	3150	3203	3120	29	19.7	14.4	6.8	29	-9.1
	600	29	4128	4482	4385	29	4.4	6.4	1.6	29	-15.7
	500	29	5890	5938	5843	29	-4.2	-1.1	-6.6	29	-22.3
	400	29	7620	7687	7561	29	-14.1	-9.7	-18.0	29	-31.0
	300	28	9741	9805	9679	28	-29.1	-24.4	-32.1	28	-42.1
	250	27	11026	11115	10934	27	-39.5	-32.5	-40.5	27	-51.7
	200	27	12533	12059	12397	27	-48.1	-41.9	-50.6	26	-59.9
	150	26	14369	14458	14228	26	-60.6	-54.1	-63.3	6	-66.7
	100	21	16826	16962	1658	21	-72.2	-63.3	-77.8	—	—
	70	14	18956	19102	18811	14	-67.3	-59.6	-73.4	—	—
	60	2	19945	19950	19940	2	-66.3	-62.2	-69.4	—	—
	50	2	21008	21052	20964	2	-59.1	-59.1	-59.1	—	—
	40	1	24330	—	—	1	-49.1	—	—	—	—
	30	—	—	—	—	—	—	—	—	—	—
	20	—	—	—	—	—	—	—	—	—	—
	10	—	—	—	—	—	—	—	—	—	—
Helwan 1200 U.T.	Surface	31	* 992 m.b.	* 995 m.b.	* 990m.b.	31	32.0	34.2	30.0	31	13.5
	1000	30	72	95	49	—	—	—	—	—	—
	850	30	1502	1535	1480	30	19.6	27.5	15.5	29	5.2
	700	30	3155	3189	3129	30	12.7	15.1	9.6	29	-10.3
	600	29	4437	4174	4402	29	6.9	9.5	3.0	28	-17.4
	500	28	5946	5957	5880	28	-0.2	3.6	3.0	27	-23.7
	400	28	7672	7730	7627	28	-10.6	-6.7	-16.7	27	-31.1
	300	27	9823	9909	9764	27	-25.2	-20.9	-30.7	26	-42.4
	250	27	11123	11237	11044	27	-34.2	-29.0	-38.5	26	-50.2
	200	27	12656	12814	12514	27	-43.5	-38.8	-49.1	26	-58.1
	150	25	14551	14750	14384	25	-52.3	-49.0	-61.2	22	-63.5
	100	21	17071	17310	16858	21	-67.5	-61.6	-75.7	—	—
	70	17	19224	19360	18947	17	-61.9	-56.6	-72.9	—	—
	60	14	20235	20500	20140	14	-58.6	-52.8	-63.0	—	—
	50	14	21362	21616	21171	14	-56.3	-44.0	-58.0	—	—
	40	9	23154	23200	22640	9	-46.7	-43.2	-52.2	—	—
	30	8	24812	25066	24674	8	-40.3	-35.9	-43.3	—	—
	20	4	27533	27639	27445	4	-36.0	-33.5	-36.9	—	—
	10	—	—	—	—	—	—	—	—	—	—
Aswan 1200 U.T.	Surface	29	* 985m.b.	* 987 m.b.	* 981m.b.	29	38.0	41.0	35.2	29	6.9
	1000	29	50	74	16	—	—	—	—	—	—
	850	29	1503	1527	1478	29	24.2	28.0	20.0	29	-1.9
	700	28	3105	3193	3135	28	13.1	16.6	6.6	27	-10.9
	600	28	4446	4481	4405	28	6.2	8.7	4.0	26	-18.6
	500	27	5917	5976	5881	27	-2.6	3.2	-6.9	26	-24.7
	400	27	7653	7719	7592	27	-11.4	-7.2	-17.3	26	-33.9
	300	27	9787	9890	9716	27	-27.2	-24.6	-31.1	26	-45.7
	250	25	11077	11194	10987	25	-36.0	-33.0	-40.5	25	-53.6
	200	24	12587	12734	12471	24	-46.5	-42.6	-52.5	23	-63.3
	150	23	14428	14644	14291	23	-61.0	-51.2	-63.9	6	-71.0
	100	20	16851	17187	16682	20	-76.2	-64.8	-81.4	—	—
	70	13	18956	19367	18751	13	-70.1	-62.2	-77.7	—	—
	60	7	19887	20060	19710	7	-65.3	-62.6	-68.0	—	—
	50	7	20970	21132	20778	7	-61.0	-58.9	-63.2	—	—
	40	4	22485	22580	22300	4	-56.4	-52.8	-58.4	—	—
	30	4	24353	24521	24221	4	-52.3	-50.6	-54.0	—	—
	20	1	27038	—	—	1	-43.1	—	—	—	—
	10	—	—	—	—	—	—	—	—	—	—

N = Number of observations of specified pressure surface.

* The atmospheric pressure corrected to the elevation of the radiosonde stations.

TABLE B .2—MEAN AND EXTREME VALUES OF THE FREEZING LEVEL AND THE TROPOAUSE;
THE HIGHEST WIND SPEED IN THE UPPER AIR.

AUGUST — 1975

STATION	Freezing level									First Tropopause									Highest wind speed				
	Mean			Highest			Lowest			Mean			Highest			Lowest			Altitude (gpm)	Pressure (mb.)	Speed in Knots		
	Altitude (gpm)	Pressure (mb.)	Dew point (°C)	Altitude (gpm)	Pressure (mb.)	Dew point (°C)	Altitude (gpm)	Pressure (mb.)	Dew point (°C)	Altitude (gpm)	Pressure (mb.)	Temperature (°C)	Altitude (gpm)	Pressure (mb.)	Temperature (°C)	Altitude (gpm)	Pressure (mb.)	Temperature (°C)	Altitude (gpm)	Pressure (mb.)	Direction (000—360)•		
0000 UT	(N)	(N)	(N)							(N)	(N)	(N)											
	Mersa Matruh .	5024 (31)	558 (31)	-22.5 (31)	5670	523	-21.4	4220	603	-25.1	16825	104	-72.7	20959	055	-77.0	14500	147	-67.4	1400	862	320	22
	Helwan.	5472 (29)	533 (29)	-16.4 (29)	6090	487	-28.0	4140	618	-7.4	16868 (18)	100 (18)	-73.4 (18)	17700	089	-73.6 (18)	15170	130	-67.2	15130	—	210	84
Aswan.		5303 (29)	539 (27)	-16.7 (27)	5530	527	-9.8	4600	588	-6.6	—	—	—	—	—	—	—	—	600	—	340	32	
1200 UT	(N)	(N)	(N)							(N)	(N)	(N)											
	Mersa Matruh .	5201 (29)	546 (29)	-19.3 (29)	6050	490	-28.0	4700	578	-13.9	15483	117	-68.9	17700	087	-71.0	13670	165	-51.8	13670	165	190	72
	Helwan.	5919 (28)	502 (28)	-23.1 (27)	6600	461	-22.7	4770	580	-10.5	17224 (16)	097 (16)	-68.4 (16)	18780	079	-70.0	15630	123	-66.5	15415	—	195	98
Aswan.		5530 (27)	523 (27)	-22.5 (26)	6540	466	-25.1	5000	560	-22.7	16870 (11)	100 (11)	-76.2 (11)	17840	087	-78.9	16140	114	-72.5	19840	062	110	65

N= The number of cases the element has been observed during the month.

Table B 3.—NUMBER OF OCCURRENCES OF WIND DIRECTION WITHIN SPECIFIED RANGES AND THE MEAN SCALAR SCALAR WIND SPEED AT THE STANDARD AND SELECTED PRESSURE SURFACES

MERSA MATRUH (A) — AUGUST 1975

Time	Pressure Surface Millibar	Wind between specified ranges of direction (000—360) ^a												Number of calm winds	Total number of observations (TN)	Mean scalar wind speed (knots)										
		345		015		045		075		105		135		165		195		225		255						
		N	(ff)	N	(ff)	N	(ff)	N	(ff)	N	(ff)	N	(ff)	N	(ff)	N	(ff)	N	(ff)	N	(ff)					
0000 U.T.	Surface	3	8	1	3	0	—	0	—	0	—	0	—	1	2	5	6	6	7	12	8	12	0	31	9	
	1000	0	0	0	—	0	—	0	—	0	—	0	—	2	2	6	3	12	3	12	2	12	0	10	11	
	850	1	8	0	—	0	—	0	—	0	—	0	—	1	7	2	14	3	13	3	12	0	10	12		
	700	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	7	—	—	0	—	0	0	1		
	600	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	500	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	400	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	300	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	250	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	200	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	150	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	100	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	70	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	60	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	50	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	40	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	30	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
1200 U.T.	Surface	2	14	2	08	0	—	0	—	0	—	0	—	0	—	0	—	0	—	7	15	19	14	0	30	14
	1000	3	12	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	17	19	10	16	0	30	17
	850	3	14	1	12	0	—	0	—	0	—	0	—	0	—	1	04	10	13	9	15	4	17	0	28	14
	700	3	12	0	—	0	—	1	09	0	—	0	—	2	09	1	25	18	12	7	17	4	14	0	26	13
	600	1	13	0	—	1	04	1	06	0	—	0	—	2	06	8	14	10	14	0	—	3	09	0	26	12
	500	0	—	1	03	0	—	0	—	1	09	0	—	3	18	11	22	5	12	3	14	1	10	0	25	16
	400	—	—	0	—	0	—	0	—	0	—	0	—	5	26	14	26	4	25	1	12	0	—	0	24	26
	300	—	—	0	—	0	—	0	—	0	—	0	—	12	34	5	28	3	12	0	—	1	12	0	21	29
	250	—	—	0	—	0	—	0	—	0	—	0	—	1	25	10	35	6	24	4	17	0	—	0	21	28
	200	—	—	0	—	0	—	0	—	0	—	0	—	3	19	9	39	6	22	1	18	0	—	0	0	19
	150	—	—	0	—	0	—	0	—	1	12	1	25	5	37	6	30	2	12	0	—	1	31	0	16	29
	100	—	—	0	—	0	—	0	—	0	—	2	14	7	36	4	27	0	—	0	—	0	—	0	13	30
	70	—	—	0	—	0	—	0	—	1	30	0	—	0	—	0	—	0	—	—	—	—	0	1	30	
	60	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	50	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	40	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	30	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	

N = The number of cases the wind has been observed from the range of direction during the month

TN = The total number of cases the wind has been observed for all directions during the month,

TABLE B 3, NUMBER OF OCCURRENCES OF WIND DIRECTION WITHIN SPECIFIED RANGES AND THE MEAN SCALAR WIND SPEED AT THE STANDARD AND SELECTED PRESSURE SURFACES.
HELWAN — AUGUST 1975

Time	Pressure Surface (Millibar)	Wind between specified ranges of direction (000—360)°														Number of Calm winds	Total Number of Observations (TN)	Open Scalar wind speed Mead (Knots)							
		345		015		045		075		105		135		165		195		225		255		285			
		N 014	(ft) 044	N 044	(ft) 074	N 074	(ft) 104	N 104	(ft) 134	N 134	(ft) 164	N 164	(ft) 194	N 194	(ft) 224	N 224	(ft) 254	N 254	(ft) 284	N 284	(ft) 314	N 314	(ft) 344		
0000 U.T.	Surface	17	8	9	11	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	5	7		
	1000	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0	31		
	850	11	13	7	15	2	13	2	12	0	—	0	—	0	—	0	—	1	2	1	13	6	10		
	700	8	9	4	12	0	—	1	16	2	14	1	5	1	3	3	9	1	8	3	9	4	12		
	600	1	9	3	18	2	16	0	—	3	17	1	16	0	—	1	5	3	7	13	5	14	3	12	
	500	0	—	1	17	2	10	3	12	0	—	0	—	0	—	0	—	1	12	14	4	11	0	29	
	400	2	11	1	16	0	—	1	10	1	8	1	16	0	—	0	—	6	21	10	15	6	18	1	8
	300	1	4	3	9	0	—	0	—	0	—	2	9	0	—	1	20	8	21	4	19	7	17	2	10
	250	0	—	3	11	0	—	0	—	0	—	0	—	1	10	1	29	10	23	4	19	7	13	2	9
	200	0	—	0	—	0	—	2	10	0	—	0	—	1	24	3	24	10	27	5	18	4	11	2	10
	150	0	—	0	—	0	—	6	—	0	—	0	—	4	14	0	23	12	28	1	7	0	—	0	0
	100	0	—	1	0	—	0	—	0	—	1	13	4	21	8	33	4	28	0	—	0	—	0	0	
	70	0	—	0	—	0	—	1	21	4	20	1	16	3	26	2	20	0	—	0	—	0	—	0	11
	60	0	—	0	—	0	—	2	25	6	29	2	18	0	—	0	—	0	—	0	—	0	—	0	10
	50	0	—	0	—	0	—	2	16	8	32	0	—	0	—	0	—	0	—	0	—	0	—	0	10
	40	0	—	0	—	0	—	0	—	4	38	1	38	0	—	0	—	0	—	0	—	0	—	0	5
	30	0	—	0	—	0	—	0	—	1	41	0	—	0	—	0	—	0	—	0	—	0	—	0	1
	20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1200 U.T.	Surface	10	11	2	9	0	—	0	—	0	—	0	—	0	—	0	—	1	6	2	9	7	10	9	9
	1000	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0	31	10	—
	850	7	11	12	10	4	10	2	11	0	—	1	4	0	—	0	—	0	—	0	—	1	9	3	12
	700	7	11	2	10	1	18	1	8	0	—	1	6	1	12	2	20	3	18	7	13	2	10	3	10
	600	2	16	1	30	2	11	2	19	2	12	0	—	0	—	2	9	2	20	10	18	3	15	3	10
	500	1	19	0	—	2	20	2	8	2	10	0	—	0	—	1	17	3	16	10	21	4	18	3	12
	400	1	9	2	11	0	—	1	38	0	—	0	—	1	15	1	19	3	12	8	22	6	13	3	12
	300	1	9	1	8	0	—	0	—	1	15	1	13	2	22	7	24	5	24	5	14	4	12	0	27
	250	0	—	1	4	0	—	1	5	1	10	0	—	0	—	4	26	9	22	5	16	3	9	2	12
	200	0	—	0	—	0	—	1	9	0	—	0	—	0	—	0	—	4	26	9	22	5	16	3	12
	150	0	—	0	—	0	—	0	—	0	—	1	18	1	18	8	19	6	24	1	10	2	8	0	19
	100	0	—	0	—	0	—	1	4	0	—	3	24	6	25	6	30	0	—	0	—	0	—	0	16
	70	0	—	0	—	0	—	0	—	1	19	6	41	3	25	0	—	0	—	0	—	0	—	0	10
	60	0	—	0	—	0	—	0	—	2	34	5	36	1	42	0	—	0	—	0	—	0	—	0	8
	50	0	—	0	—	0	—	0	—	5	37	3	41	0	—	0	—	0	—	0	—	0	—	0	8
	40	0	—	0	—	0	—	0	—	4	34	2	40	0	—	0	—	0	—	0	—	0	—	0	6
	30	0	—	0	—	0	—	0	—	3	37	0	—	0	—	0	—	0	—	0	—	0	—	0	3
	20	0	—	0	—	0	—	0	—	1	40	0	—	0	—	0	—	0	—	0	—	0	—	0	1
	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

N = The number of cases the wind has been observed during the month.

TN = The total number of cases the wind has been observed for all directions during the month.

TABLE B 3 (contd.)—NUMBER OF OCCURRENCES OF WIND DIRECTION WITHIN SPECIFIED RANGES AND THE MEAN SCALAR WIND SPEED AT THE STANDARD AND SELECTED PRESSURE SURFACES.
ASWAN (A)—AUGUST 1975

N — The number of cases the wind has been observed from the range of direction during the month
TN — The total number of cases the wind has been observed during the month.

REVIEW OF AGROMETEOROLOGICAL STATIONS

MERSA MATRUH — AUGUST 1975

Mild summer weather prevailed the whole month, and the mean daily air temperature was nearly the same as normal. The mean daily relative humidity was slightly above normal.

The highest maximum soil temperatures were higher than last August at 2 & 100 cm. depths, and lower at other depths between 5 & 50 cm.; the departures varied between 0.1° and 0.6°C. The lowest minimum soil temperatures were higher than last August at all depths except at 10 & 100 cm. where its values were lower than last August; the departures varied between 0°.1 & 0.4°C.

The mean daily actual sunshine duration was the same as normal. The mean daily wind speed at 1.5 met. height was slightly higher than the corresponding value of August 1974.

TAHRIR — AUGUST 1975

The mean daily air temperature was slightly below normal, and the mean daily relative humidity was slightly above normal.

The month was intervened by four heat waves on the 1st, (13th-16th), 20th and (27th-31st). The last wave yielded the highest maximum air temperature for the month (36.9°C) on the 28th and the highest minimum air temperature (22.1C) on the 31st. In the rest of the month mild summer weather prevailed.

The highest maximum soil temperatures were lower than normal at all depths with departures between 4.0 °C (at 5 cm.) and 0.4°C (at 100 cm.). The lowest minimum soil temperatures were lower than normal at all depths except at 20 cm. where its value was the same as normal and at 50 cm. where its value was higher by 0.1°C; the departures varied between 1.3°C (at 2 cm.) and 0.2°C (at 100 cm.)

The mean daily actual sunshine duration was nearly the same as normal. The mean daily pan evaporation and wind speed at 1.5 met. height were slightly lower than normal.

BAHTIM — AUGUST 1975

The mean daily air temperature and relative humidity were rather normal.

Mild summer weather prevailed during this month apart from two short heat waves on the 15th and (28th & 29th). The second wave yielded the highest maximum air temperature for the month (35.2°C) on the 29th.

The highest maximum soil temperatures were higher than average at 2 & 5 cm. depths by 0.5°C and 1.3°C respectively, the same as average at 10 cm.; and lower than average at 20, 50 a& 100 cm. depths by slight departures between 0.1° & 0.5°C. The lowest minimum soil temperatures were higher than average at all depths except at 10 cm. where it was lower than average; the departures from average ranged between 0.1° & 0.6°C.

The mean daily actual sunshine duration, wind speed at 1.5 met. height and pan evaporation departed slightly from average.

KHARGA — AUGUST 1975

The mean daily air temperature and relative humidity were rather normal.

Maximum air temperatures persisted below normal the whole month apart from a heat wave during the last three days yielding the highest maximum air temperature for the month (40.6°C) on the 29th.

The highest maximum soil temperatures were lower than average at all depths except at 10 and 20 cm. where the highest maxima were higher than average by 0.7° and 0.1°C respectively, the departures ranged between 2.5°C (at 2cm.) and 0.3°C (at 100 cm.). The lowest minimum soil temperatures were higher than average at 2, 5 and 100 dcm. depths with departures between 1.2°C (at 2cm.) and 0.1°C (at 100cm.) ; and lower than average at 10,20 and 50 cm. depths with slight departures between 0.2° and 0.4°C .

The mean daily actual sunshine duration, wind speed at 1.5 met. height and pan evaporation were slightly lower than average.

**Table C 1.—AIR TEMPERATURE AT $1\frac{1}{2}$ METRES ABOVE GROUND
AUGUST — 1975**

STATION	Air Temperature ($^{\circ}\text{C}$)					Mean Duration in hours of daily air temperature above the following values											
	Mean Max.	Mean Min.	Mean of the day	Night time mean	Day time mean	-5 $^{\circ}\text{C}$	0 $^{\circ}\text{C}$	5 $^{\circ}\text{C}$	10 $^{\circ}\text{C}$	15 $^{\circ}\text{C}$	20 $^{\circ}\text{C}$	25 $^{\circ}\text{C}$	30 $^{\circ}\text{C}$	35 $^{\circ}\text{C}$	40 $^{\circ}\text{C}$	45 $^{\circ}\text{C}$	
M. Matruh	28.8	21.2	25.1	23.2	26.5	24.0	24.0	24.0	24.0	24.0	23.4	11.6	0.0	0.0	0.0	0.0	
Tahrir	34.7	19.1	25.7	22.0	28.6	24.0	24.0	24.0	24.0	24.0	21.4	12.1	5.3	0.0	0.0	0.0	
Bahtim	32.3	18.3	24.9	21.0	27.9	24.0	24.0	24.0	21.0	24.0	18.9	11.1	4.6	0.0	0.0	0.0	
Kharga	37.5	23.6	31.5	28.8	33.8	24.0	24.0	24.0	24.0	24.0	24.0	22.6	14.1	5.7	0.0	0.0	

**Table C 2.—EXTREME VALUES OF AIR TEMPERATURE AT $1\frac{1}{2}$ METRES ABOVE GROUND,
ABSOLUTE MINIMUM AIR TEMPERATURE AT 5cms ABOVE GROUND OVER DIFFERENT FIELDS
AUGUST — 1975**

STATION	Max. Temp. at $1\frac{1}{2}$ metres				Min. Temp. at $1\frac{1}{2}$ metres				Min. Temp. at 5 cms. above			
	Highest		Lowest		Highest		Lowest		Dry Soil		Grass	
	Value	Date	Value	Date	Value	Date	Value	Date	Value	Date	Value	Date
M. Matruh.	30.4	28	27.8	17.22	24.4	30	18.6	19	16.0	25	—	—
Tahrir	36.9	28	33.0	5	22.1	31	16.2	25	14.9	25	13.5	25
Bahtim	35.2	29	30.8	23	22.6	30	16.0	26	13.1	27	12.2	26
Kharga	40.6	29	35.5	8	27.2	21	19.0	15	17.3	15	—	—

**Table C 3.—(SOLAR + SKY) RADIATION, DURATION OF BRIGHT SUNSHINE, RELATIVE HUMIDITY & VAPOUR PRESSURE AT $1\frac{1}{2}$ METRES ABOVE GROUND, EVPORATION & RAINFALL
AUGUST — 1975**

STATION	Solar+Sky Radiation gm. ca./cm. ²	Duration o f Bright Sunshine (hours)			Relative Humidity %				Vapour Pressure (mmes)					Evaporation(mmm)		Rainfall (mmes)				
		Total	Actual	Total Possible monthly	%	Mean of day	1200 U.T.	Lowest	Date	Mean of day	1200 UT	Highest	Date	Lowest	Date	Pishe	Pan class (A)	Total Amount monthly	Max. fall in one day	Date
M. Matruh	497.3	370.3	412.4	90	77	67	56	8	18.2	18.9	22.8	29	14.0	25	5.6	—	0.0	—	—	
Tahrir	681.9	366.4	410.9	89	75	50	40	14	18.0	17.9	22.7	17	13.4	25	5.5	9.41	0.0	—	—	
Bahtim	608.3	346.6	409.9	85	71	46	34	15.17	16.2	15.5	21.3	17	12.1	17	6.3	8.43	0.0	—	—	
Kharga	657.3	370.8	403.3	92	30	23	13	27	10.2	10.4	14.4	7	6.8	27	16.0	17.26	0.0	—	—	

**Table C 4.—EXTREME SOIL TEMPERATURE AT DIFFERENT DEPTHS
IN DIFFERENT FIELDS**

AUGUST — 1975

STATION	Highest (H) Lower (L)	Extreme soil temperature (°C) in dry field at different depths (cms.)								Extreme soil temperature (°C) in grass fie at different depths (cms)							
		2	5	10	20	50	100	200	300	2	5	10	20	50	100	200	300
M.Matruh	H	42.3	39.6	34.6	31.2	29.6	27.4	24.7	—	—	—	—	—	—	—	—	—
	L	25.0	24.4	25.0	27.8	28.6	26.5	23.8	—	—	—	—	—	—	—	—	—
Tahrir	H	51.3	44.7	40.1	35.5	32.7	31.2	29.1	28.1	32.6	31.5	30.4	29.0	29.1	28.4	27.3	—
	L	26.2	25.4	26.4	30.2	31.3	30.6	28.7	27.5	24.2	24.2	24.7	25.8	27.6	27.6	27.1	—
Bahtim	H	56.0	47.6	40.2	34.5	32.2	30.4	28.0	26.0	39.0	31.8	30.6	28.7	27.5	26.2	23.7	—
	L	28.8	28.4	29.2	32.1	31.5	30.1	27.2	25.5	24.4	23.9	24.5	25.8	26.6	25.7	22.9	—
Kharga	H	55.3	49.6	44.2	38.3	34.6	33.2	31.1	29.6	—	—	—	—	—	—	—	—
	L	23.0	26.3	29.1	32.8	33.5	32.8	30.5	29.0	—	—	—	—	—	—	—	—

Table C 5.—SURFACE WIND

AUGUST — 1975

STATION	Wind Speed m/sec at 1½ metres			Days with surface wind speed at (10 metres)							Max.Gust 10 metres	
	Mean of the day	Night time mean	Day time mean	≥ 10 (knots)	≥ 15 (knots)	≥ 20 (knots)	≥ 25 (knots)	≥ 30 (knots)	≥ 35 (knots)	≥ 40 (knots)	Value (knots)	Date
M.Matruh . .	4.2	3.0	5.4	31	27	12	0	0	0	0	27	29
Tahrir	2.1	1.3	3.0	31	4	0	0	0	0	0	24	5.15
Bahtim	2.1	1.2	2.9	27	1	0	0	0	0	0	23	24
Kharga	3.3	2.4	4.4	31	27	13	0	0	0	0	34	4

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The Chairman

M. H. El-Said

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MONTHLY WEATHER REPORT

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THE EGYPTIAN METEOROLOGICAL AUTHORITY
CAIRO



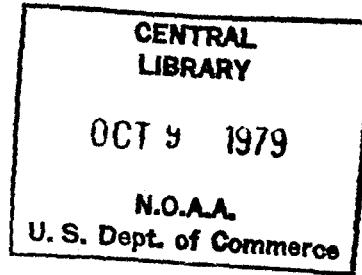
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THE EGYPTIAN METEOROLOGICAL AUTHORITY
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PUBLICATIONS OF THE METEOROLOGICAL AUTHORITY OF THE ARAB REPUBLIC OF EGYPT—CAIRO

In fulfilment of its duties, the Egyptian Meteorological Authority issues several reports and publications on weather, climate and agro-meteorology. The principal publications are described on this page.

Orders for publications should be addressed to :

"Chairman of the Board of Directors, Meteorological Authority, Kubri-el-Qubbah — CAIRO".

THE MONTHLY WEATHER REPORT

First issued in 1909, the Monthly Weather Report served to give a brief summary of the weather conditions that prevailed over Egypt during the month, with a table showing the mean values for few meteorological elements and their deviations from the normal values. From 1954 to 1957 this report was in a rapid state of development and extension resulting into a voluminous report on January 1958 giving surface, upper air, and agro-meteorological data for Egypt.

As from January 1964, the Monthly Weather Report was pressed to give climatological data for a representative selection of synoptic stations.

THE AGRO-METEOROLOGICAL ABRIDGED MONTHLY REPORT

Gives a review of weather experienced in the agro-meteorological stations of Egypt as well as monthly values of certain elements.

THE ANNUAL REPORT

This report gives annual values and statistics for the various meteorological elements, together with a summary of the weather conditions that prevailed during all months of the year.

CLIMATOLOGICAL NORMALS FOR EGYPT

A voluminous edition was issued in March 1968 which brings normals and mean values up till 1960.

METEOROLOGICAL RESEARCH BULLETIN

First issued in January 1969 on a bi-annual basis. It includes research works carried out by members of staff of "The Meteorological Institute for Research and Training" and the Operational Divisions of the Meteorological Authority.

TECHNICAL NOTES

As from October 1970, the Meteorological Authority started to issue a new series of publications in the form of Technical Notes (non periodical) on subjects related to studies and applications of meteorology in different fields for the benefit of personnel working in these fields.

GENERAL SUMMARY OF WEATHER CONDITIONS

SEPTEMBER 1975

Generally mild in north, hot in south.

PRESSURE DISTRIBUTION

The main pressure systems established over the area during this month were the extension of the Indian monsoon low over the Arabian gulf and Arabia, and the high pressure over Central Mediterranean affecting NE Africa.

SURFACE WIND

Surface winds were generally light to moderate N ly and NW ly, freshened during several days in scattered places mainly in the Western Desert and Red Sea districts.

TEMPERATURE

Apart from two light heat waves, maximum air temperatures were slightly below normal.

Minimum air temperatures showed slight or moderate departures from normal, mostly above normal in the northern and southern parts but irregular in the middle parts.

Cairo, January 1977

The highest and lowest maximum air temperatures reported were respectively 43.2°C at Qena on the 6th and 26.4°C at Matruh on the 19th.

The highest and lowest minimum air temperatures were respectively 27.7°C at Hurgada on the 1st and 12.8°C at Kom Ombo on the 16th.

PRECIPITATION

No rain was reported apart from 0.3 mm over Rosetta on the 11th.

OTHER WEATHER PHENOMENA

Early morning mist developed during several days over scattered places in Delta, Cairo and Middle Egypt.

Rising sand was reported during some days in few places.

Chairman (A. F. HASSAN.)
Board of Directors

Table A 4.—DAYS OF OCCURRENCE OF MISCELLANEOUS WEATHER PHENOMENA

SEPTEMBER — 1975

Station	Precipitation				Frost	Thunderstorm	Mist Vis ≥ 1000 metres	Fog Vis < 1000 Metres	Haze Vis ≥ 1000 Metres	Thick Haze Vis < 1000 Metres	Dust or Sandstorm Vis ≥ 1000 Metres	Dust or Sandstorm Vis < 1000 Metres	Gale	Clear Sky	Cloudy Sky	
	Rain	Snow	Ice. Pellets	Hail												
Sallum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14	0
Mersa Matruh . . . (A)	0	0	0	0	0	0	13	0	0	0	0	0	0	0	16	0
Alexandria (A)	0	0	0	0	0	0	1	0	0	0	0	0	0	0	12	0
Port Said (A)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	0
El Arish	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Ghazza	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tanta	0	0	0	0	0	0	14	0	0	0	0	0	0	0	27	0
Cairo (A)	0	0	0	0	0	0	24	5	1	0	0	0	0	0	16	0
Fayoum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	—	—
Minya (A)	0	0	0	0	0	0	10	0	0	0	0	0	0	0	30	0
Assyout (A)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	0
Luxor (A)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	0
Aswan (A)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	0
Siwa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26	0
Bahariya	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	0
Farafra	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	0
Dakhla	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	0
Kharga	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	0
Tor	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hurghada	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	0
Quseir	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	0

TABLE A 5.—NUMBER IN HOURS OF OCCURRENCES OF CONCURRENT SURFACE WIND SPEED AND DIRECTION RECORDED WITHIN SPECIFIED RANGES
SEPTEMBER — 1975

Station	Calm (hours)	Variable (hours)	Unrecorded (hours)	Wind speed in knots	Number in hours of occurrences of wind blowing from the ranges of directions indicated														
					345 014	015 044	045 074	075 104	105 134	135 164	165 194	195 224	225 254	255 284	285 314	315 344	All directions		
					014	044	074	104	134	164	194	224	254	284	314	344	014		
Salhm	0	3	20	1—10	56	129	22	8	1	0	0	0	0	3	9	77	135	440	
				11—27	7	64	11	1	0	0	0	0	0	0	2	69	103	257	
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
				All speeds	63	193	33	9	1	0	0	0	0	3	11	146	238	697	
Merca Matruh . .	13	0	0	1—10	100	15	0	0	0	0	1	13	64	55	42	156	446		
				11—27	53	0	0	0	0	0	0	0	0	0	0	9	199	261	
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
				All speeds	153	15	0	0	0	0	1	13	64	55	51	355	707		
Aleczandria	1	0	0	1—10	110	4	2	2	5	4	12	6	4	4	69	409	631		
				11—27	0	0	0	0	0	0	0	0	0	0	0	6	82	88	
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
				All speeds	110	4	2	2	5	4	12	6	4	4	75	491	719		
Tanta	14	0	0	1—10	141	50	11	2	0	0	0	8	45	106	105	176	644		
				11—27	38	2	0	0	0	0	0	0	0	0	0	0	22	62	
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
				All speeds	179	52	11	2	0	0	0	8	45	166	105	198	706		
Cairo	95	1	3	1—10	141	64	20	11	0	0	0	0	4	34	113	144	531		
				11—27	39	10	0	2	0	0	0	0	0	0	0	6	33	90	
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
				All speeds	180	74	20	13	0	0	0	0	4	34	119	177	621		
Fayouni	0	2	314	1—10	217	93	1	0	0	0	0	2	0	1	2	81	399		
				11—27	0	3	0	0	0	0	0	0	0	0	0	2	5		
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0		
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0		
				All speeds	217	98	1	0	0	0	0	2	0	1	2	83	404		
Mnuya	14	2	0	1—10	271	102	0	0	0	0	0	0	0	0	0	3	20	496	
				11—27	105	102	0	0	0	0	0	0	0	0	0	0	1	208	
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
				All speeds	476	204	0	0	0	0	0	0	0	0	0	3	21	704	
Asyout	19	0	0	1—10	108	18	0	0	0	0	0	0	0	3	3	33	125	290	
				11—27	235	21	0	0	0	0	0	0	0	0	0	4	151	411	
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
				All speeds	343	39	0	0	0	0	0	0	0	0	3	3	37	276	701

Table A 5 (contd.)—NUMBER IN HOURS OF OCCURRENCES OF CONCURRENT SURFACE WIND SPEED AND DIRECTION RECORDED WITHIN SPECIFIED RANGES

SEPTEMBER — 1975

Station	Calm (hours)	Variable (hours)	Unrecorded (hours)	Wind speed in knots	Number in hours of occurrences of wind blowing from the ranges of directions indicated													
					315	015	045	075	105	135	165	195	225	255	285	315	All directions	
					/	/	/	/	/	/	/	/	/	/	/	/	/	
Luxor (A)	113	0	0	1—10	40	6	2	1	1	1	80	73	53	77	127	123	584	
				11—27	6	0	0	0	0	0	0	0	0	0	0	1	16	23
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥ 48	0	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	46	6	2	1	1	1	80	13	53	77	128	139	607	
Aswan (A)	5	0	0	1—10	161	56	4	2	0	5	2	1	5	17	63	141	457	
				11—27	108	24	0	0	0	0	1	0	0	0	0	23	101	258
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥ 48	0	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	269	80	4	2	0	6	3	1	5	17	86	242	715	
Siwa	4	20	12	1—10	122	104	43	19	13	9	1	7	8	30	92	106	554	
				11—27	38	66	3	0	0	0	0	0	0	0	2	7	14	130
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥ 48	0	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	160	110	46	19	13	9	1	7	8	32	99	120	684	
Dakhla	0	0	0	1—10	75	9	2	3	0	0	6	6	26	54	113	288	512	
				11—27	42	0	0	0	0	0	0	0	0	0	0	96	138	
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0	
				≥ 48	0	0	0	0	0	0	0	0	0	0	0	0	0	
				All speeds	117	9	2	3	0	0	6	6	26	54	113	384	720	
Kharga	1	1	0	1—10	324	21	13	5	3	3	2	0	1	7	24	52	455	
				11—27	254	1	0	0	0	0	0	0	0	0	0	0	8	2(3)
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥ 48	0	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	578	22	13	5	3	3	2	0	1	7	24	60	718	
Hurghada	2	0	0	1—10	33	10	0	0	1	1	1	1	0	6	81	31	168	
				11—27	121	4	0	0	0	0	0	0	0	1	123	301	5(0)	
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0	
				≥ 48	0	0	0	0	0	0	0	0	0	0	0	0	0	
				All speeds	154	14	0	0	1	1	1	1	0	7	207	333	718	
Qussir	3	5	2	1—10	74	11	5	0	1	3	4	3	9	29	154	86	379	
				11—27	150	2	0	0	0	0	0	0	0	0	7	172	331	
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0	
				≥ 48	0	0	0	0	0	0	0	0	0	9	0	0	0	
				All speeds	224	13	5	0	1	3	4	3	9	29	161	258	710	

UPPER AIR CLIMATOLOGICAL DATA

**Table B 1 --MONTHLY MERNS AND MONTHLY ABSOLUTE HIGHER & LOWER
VALUES OF ALTITUDE, AIR TEMPERATURE & DEW POINT AT
STANDARD AND SELECTED PRESSURE SURFACES**

SEPTEMBER 1975

Station	Pressure Surface (Millibar)	Altitude of Pressure Surface (gpm)				Temperature (°C)				Dew Point (°C)	
		N	Mean	Highest	Lowest	N	Mean	Highest	Lowest	N	Mean
Marsa Matruh 0000 U.T.	Surface	30	1011* mb.	1014* mb.	1078mb.	30	23.7	28.8	21.0	30	16.0
	1000	30	119	150	89	30	22.4	25.3	19.8	30	16.4
	850	30	1509	1643	1480	30	14.6	20.0	7.7	30	1.3
	700	30	3130	3183	3076	30	8.5	14.2	-1.1	30	-12.6
	600	30	4389	4149	4301	30	1.7	5.3	-5.1	30	-19.7
	500	30	5834	5907	5715	30	-7.7	-4.1	-11.5	30	-26.5
	400	30	7530	7625	7394	30	-19.2	-15.2	-23.0	30	-36.7
	300	30	9624	9726	9459	30	-33.5	-29.1	-38.8	30	-48.0
	250	29	10868	10996	10747	29	-42.5	-38.5	-51.0	27	-55.8
	200	23	12347	12489	12174	28	-52.3	-49.3	-58.9	26	-65.1
	150	28	14161	14322	13962	28	-62.4	-50.0	-68.5	2	-64.5
	100	20	16572	16725	16402	20	-73.5	-61.4	-80.0	—	—
	70	5	18782	18997	18653	5	-67.1	-61.6	-70.1	—	—
	60	4	19738	19780	19640	4	-62.4	-59.9	-64.8	—	—
	50	4	20819	20881	20727	4	-59.4	-58.0	-60.7	—	—
	40	2	22275	22350	22200	2	-57.8	-56.9	-58.9	—	—
	30	1	24084	—	—	1	-54.2	—	—	—	—
	20	1	26684	—	—	1	-51.1	—	—	—	—
	10	—	—	—	—	—	—	—	—	—	—
Helwan 0060 U.T.	Surface	30	995mb.	* 1000mb.	990mb.	30	21.9	24.0	19.9	30	18.0
	1000	30	97	140	57	1	20.7	—	—	1	17.2
	850	30	1497	1528	1466	30	16.3	24.2	10.4	30	5.8
	700	30	3134	3172	3100	30	10.3	13.4	5.0	30	-6.2
	600	30	4403	4412	4354	30	3.0	6.0	-1.1	30	-10.5
	500	30	5858	5911	5787	30	-5.4	-2.0	9.7	30	-18.9
	400	30	7573	7634	7471	30	-16.7	-12.7	-22.9	30	-28.5
	300	29	9686	9771	9562	29	-28.9	-26.0	-34.3	29	-39.7
	250	27	10958	1158	10824	26	-39.0	-35.2	-42.9	26	-48.2
	200	22	12452	12569	12311	22	-49.3	-46.1	-52.7	22	-52.1
	150	12	14318	14426	14177	12	-61.0	-56.9	-64.0	3	-65.8
	100	7	16771	16941	16605	7	-70.8	-65.9	-74.7	—	—
	70	3	18829	18953	18713	3	-67.7	-62.2	-72.0	—	—
	60	1	19690	—	—	1	-66.6	—	—	—	—
	50	1	20748	—	—	1	-64.1	—	—	—	—
	40	1	22220	—	—	1	-61.0	—	—	—	—
	30	1	23925	—	—	1	-57.4	—	—	—	—
	20	—	—	—	—	—	—	—	—	—	—
	10	—	—	—	—	—	—	—	—	—	—
Aswan 0000 U.T.	Surface	28	986mb.	* 990mb.	* 981mb.	28	25.8	30.8	20.0	28	7.0
	1000	28	071	107	026	—	—	—	—	—	—
	850	28	1498	1524	1419	28	22.1	27.0	17.8	27	2.1
	700	28	3159	3195	3112	28	11.9	14.0	8.8	28	-5.4
	600	28	4428	4465	4379	27	1.8	4.2	-0.3	27	-10.8
	500	28	5876	5914	5826	28	-6.7	-3.8	-11.8	27	-22.8
	400	26	7590	7639	7539	26	-16.7	-13.1	-19.8	24	-33.9
	300	20	9690	9755	9612	20	-31.7	-29.0	-33.7	20	-45.8
	250	14	10969	11027	10896	14	-40.9	-37.8	-42.5	14	-53.7
	200	12	12463	12519	12397	12	-52.0	-49.4	-54.5	12	-58.0
	150	10	14279	14349	14189	10	-65.2	-63.8	-66.8	—	—
	100	6	16673	16688	16552	6	-77.3	-74.2	-81.7	—	—
	70	3	18722	18743	18709	3	-75.8	-72.7	-80.0	—	—
	60	1	19670	—	—	1	-64.3	—	—	—	—
	50	1	20759	—	—	1	-64.3	—	—	—	—
	40	1	22200	—	—	1	-61.6	—	—	—	—
	30	1	23939	—	—	1	-57.1	—	—	—	—
	20	—	—	—	—	—	—	—	—	—	—
	10	—	—	—	—	—	—	—	—	—	—

N— The number of cases the element has been observed during the month.

* The atmospheric pressure corrected to the elevation of the radiosonde station.

UPPER AIR CLIMATOLOGICAL DATA

Table B 1 (contd.).—MONTHLY MEAN AND MONTHLY ABSOLUTE HIGHER AND LOWER
VALUES OF ALTITUDE, AIR TEMPERATURE AND DEW POINT AT
STANDARD AND SELECTED PRESSURE SURFACES
SEPTEMBER — 1975

Station	Pressure Surface Millibar	Altitude of Pressure Surface (gpm)				Temperature (°C)				Dew Point (°O)	
		N	Mean	Highest	Lowest	N	Mean	Highest	Lowest	N	Mean
Mores Matsuhi 1200 VT	Surface . . .	29	1011m.b.	1014m.b.	1008m.b.	29	27.4	29.5	26.0	29	18.5
	1000 . . .	29	122	169	99	29	25.9	28.6	23.6	39	16.5
	850 . . .	29	1522	1557	1500	29	16.1	21.8	11.5	29	-0.2
	700 . . .	29	3150	3195	3096	29	9.6	18.4	3.8	29	-11.8
	600 . . .	29	4409	4478	4288	29	2.2	7.0	-4.5	29	-18.3
	500 . . .	28	5861	5911	5763	28	-7.7	-4.1	-20.3	28	-25.9
	400 . . .	27	7563	7678	7416	27	-18.5	-12.7	-27.5	26	-36.1
	300 . . .	25	9648	9818	9437	25	-32.3	-25.0	-39.5	25	-47.5
	250 . . .	24	10903	11118	10669	24	-41.2	-31.7	-47.1	24	-55.3
	200 . . .	23	12391	12640	12133	23	-51.2	-45.8	-54.7	22	-63.8
	150 . . .	21	14212	14502	13942	21	-63.1	-59.1	-74.3	3	-72.2
	100 . . .	13	16600	16821	16389	13	-70.5	-62.5	-77.5	—	—
	70 . . .	5	18679	18892	18524	5	-63.3	-61.0	-64.8	—	—
	60 . . .	3	19637	19850	19500	3	-61.3	-60.0	-62.5	—	—
	50 . . .	3	20757	20972	20628	3	-58.5	-57.5	-60.1	—	—
	40 . . .	1	22140	—	—	1	-53.4	—	—	—	—
	30 . . .	—	—	—	—	—	—	—	—	—	—
	20 . . .	—	—	—	—	—	—	—	—	—	—
	10 . . .	—	—	—	—	—	—	—	—	—	—
Helwan 1200 U.T.	Surface . . .	30	961m.b.	999 * m.b.	989m.b.	30	31.1	34.3	27.9	30	13.5
	1000 . . .	30	87	134	42	—	—	—	—	—	—
	850 . . .	30	1515	1548	1470	30	18.9	22.8	14.4	30	6.7
	700 . . .	30	3163	3217	3114	30	12.6	17.8	7.7	30	-10.6
	600 . . .	30	4441	4518	4380	30	5.4	10.4	0.2	30	-16.8
	500 . . .	30	5909	6013	5836	30	-2.0	3.6	-6.0	30	-23.6
	400 . . .	29	7647	7772	7549	29	-13.3	-6.3	-18.3	29	-32.3
	300 . . .	29	9783	9958	9647	29	-26.9	-20.1	-31.5	29	-43.0
	250 . . .	29	11075	11287	10917	29	-35.1	-28.8	-40.0	29	-50.4
	200 . . .	27	12610	12855	12420	27	-44.6	-39.4	-53.0	27	-58.4
	150 . . .	23	14508	14785	14305	23	-55.2	-48.0	-63.8	19	-65.6
	100 . . .	17	17000	17350	16768	17	-65.8	-57.0	-75.2	—	—
	70 . . .	7	19241	19610	18871	7	-56.2	-51.8	-65.0	—	—
	60 . . .	1	20590	—	—	1	-48.7	—	—	—	—
	50 . . .	1	21730	—	—	1	-46.4	—	—	—	—
	40 . . .	1	23380	—	—	1	-42.1	—	—	—	—
	30 . . .	1	25230	—	—	1	-30.9	—	—	—	—
	20 . . .	1	28164	—	—	1	-21.9	—	—	—	—
	10 . . .	1	33401	—	—	1	-11.3	—	—	—	—
Aswan 1200 U.T.	Surface . . .	30	986m.b.	990m.b.	982m.b.	30	37.2	42.0	33.8	30	7.0
	1000 . . .	30	64	103	26	—	—	—	—	—	—
	850 . . .	30	1517	1544	1488	30	25.0	28.2	19.8	30	-2.2
	700 . . .	28	3188	3215	3155	28	14.3	17.8	12.0	28	-10.3
	600 . . .	27	4467	4497	4429	27	4.4	7.4	1.1	27	-17.2
	500 . . .	26	5928	5951	5890	26	-5.2	-0.7	-8.8	26	-25.9
	400 . . .	25	7650	7679	7600	25	-14.8	-11.2	-17.5	25	-36.1
	300 . . .	25	9769	9824	9700	25	-29.5	-25.4	-32.3	25	-48.0
	250 . . .	24	11044	11193	10988	24	-39.1	-47.0	-41.7	24	-55.8
	200 . . .	24	12539	12626	12445	24	-50.3	-47.3	-53.2	24	-64.8
	150 . . .	21	14362	14463	14222	21	-63.6	-61.0	-67.1	—	—
	100 . . .	14	16811	16877	16625	14	-76.1	-71.7	-80.1	—	—
	70 . . .	7	18912	19973	18808	7	-70.3	-67.9	-72.8	—	—
	60 . . .	2	19825	19870	19780	2	-64.8	-63.6	-66.1	—	—
	50 . . .	2	20909	20965	20853	2	-60.8	-58.1	-63.5	—	—
	40 . . .	2	22360	22370	22350	2	-57.6	-57.4	-57.7	—	—
	30 . . .	1	24078	—	—	1	-54.2	—	—	—	—
	20 . . .	1	26708	—	—	1	-49.8	—	—	—	—
	10 . . .	—	—	—	—	—	—	—	—	—	—

N — The number of cases the element has been observed during the month.

* The atmospheric pressure corrected to the elevation of the radiosonde stations.

Table B 2.—MEAN AND EXTREME VALUES OF THE FREEZING LEVEL AND THE TROPOPAUSE:
THE HIGHEST WIND SPEED IN THE UPPER AIR

SEPTEMBER — 1975

Station	Freezing Level												First Tropopause												Highest wind speed		
	Mean			Highest			Lowest			Mean			Highest			Lowest			Altitude (gpm)			Altitude (gpm)			Speed in Knots		
	Altitude (gpm)	Pressure (mb.)	Dew point (°C)	Altitude (gpm)	Pressure (mb.)	Dew point (°C)	Altitude (gpm)	Pressure (mb.)	Dew point (°C)	Altitude (gpm)	Pressure (mb.)	Temperature (°C)	Altitude (gpm)	Pressure (mb.)	Temperature (°C)	Altitude (gpm)	Pressure (mb.)	Temperature (°C)	Altitude (gpm)	Pressure (mb.)	Temperature (°C)	Altitude (gpm)	Pressure (mb.)	Temperature (°C)	Altitude (gpm)	Pressure (mb.)	Direction (000—360)°
0000 U.T.	(N)	(N)	(N)							(N)	(N)	(N)															
	Mersa Matruh (A)	4591 (30)	587 (30)	-19.7 (30)	5140	554	-21.4	2590	745	-3.5	16110 (5)	110 (5)	-72.7 (5)	17550	087	-78.1	14380	143	-60.0	2200	769	345	34				
	Helwan . . .	4895 (30)	566 (30)	-13.5 (30)	5610	519	-11.0	4060	624	-12.8	15703 (3)	123 (3)	-70.6 (3)	15770	116	-71.4	15600	124	-69.8	8440	254	330	105				
	Aswan . . . (A)	4711 (28)	580 (28)	-12.4 (28)	5160	550	-16.3	4370	601	-11.0	16600 (1)	101 (1)	-80.8 (1)	--	--	--	--	--	--	2650	--	215	36				
1200 U.T.	(N)	(N)	(N)							(N)	(N)	(N)															
	Mersa Matruh (A)	4761 (29)	576 (29)	-20.2 (29)	5540	526	-25.9	3890	636	-13.9	14851 (5)	117 (5)	-69.2 (5)	17450	089	-70.5	14740	136	-68.0	9850	--	245	87				
	Helwan . . .	5389 (30)	536 (30)	-21.6 (30)	6640	463	-22.1	4430	597	-20.3	15896 (7)	121 (7)	-63.0 (7)	16950	107	-63.6	14510	145	-55.3	10890	255	300	114				
	Aswan . . . (A)	5055 (26)	558 (26)	-20.6 (26)	5290	452	-25.0	4600	591	-16.8	16638 (6)	104 (6)	-57.8 (6)	18040	080	-79.5	15750	120	-71.5	22650	--	100	56				

N = The number of cases the element has been observed during the month.

Table B 3. NUMBER OF OCCURRENCES OF WIND DIRECTION WITHIN SPECIFIED RANGES AND THE MEAN SCALAR WIND SPEED AT THE STANDARD AND SELECTED PRESSURE SURFACES
MERSA MATRUH SEPTEMBER 1975

Tier	Pressure Surface (Millibar)	Wind between specified ranges of direction (000-360)°														Number of Calm winds	Total Number of Observations (TN)	Mean Scalar wind Speed Knots									
		345		015		045		075		105		135		165		195		225		255		285					
		/	014	/	044	/	074	/	104	/	134	/	164	/	194	/	224	/	254	/	284	/	314	/	344		
0000 U.T.	Surface	9	10	0	—	1	2	0	—	0	—	0	—	1	4	2	6	4	7	3	8	9	13	1	30	9	
	1000	1	23	1	5	0	—	0	—	0	—	0	—	0	—	1	5	5	11	1	4	9	18	0	18	14	
	850	2	28	0	—	1	2	0	—	0	—	0	—	0	—	0	—	5	11	6	13	4	19	0	18	15	
	700	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	600	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	500	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	400	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	300	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	250	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	200	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	150	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	100	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	70	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	60	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	50	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	40	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	30	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
1200 U.T.	Surface	6	14	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	3	16	20	15	0	29	14	
	1000	4	11	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	12	18	13	17	0	29	17	
	850	3	14	0	—	0	—	0	—	0	—	0	—	0	—	3	9	5	13	5	15	13	15	0	29	14	
	700	3	21	1	26	0	—	0	—	0	—	0	—	1	13	2	13	6	12	7	13	8	16	0	28	15	
	600	4	20	0	—	1	15	0	—	0	—	0	—	2	18	6	18	6	17	4	17	5	16	0	27	18	
	500	1	9	2	15	0	—	0	—	0	—	0	—	3	23	8	27	6	20	2	10	3	22	0	25	22	
	400	0	—	0	—	0	—	0	—	0	—	0	—	2	34	10	33	7	19	2	24	1	21	0	22	27	
	300	0	—	0	—	0	—	0	—	0	—	0	—	1	28	13	39	3	26	3	26	0	—	0	20	35	
	250	0	—	0	—	0	—	0	—	0	—	0	—	2	30	13	45	2	40	3	36	0	—	0	20	41	
	200	0	—	0	—	0	—	0	—	0	—	0	—	3	36	10	41	3	31	1	5	1	29	0	18	40	
	150	0	—	0	—	0	—	0	—	0	—	0	—	4	30	5	46	1	21	1	30	0	—	0	11	37	
	100	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	10	0	—	0	—	0	—	0	1	10	
	70	—	—	—	—	—	—	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	60	—	—	—	—	—	—	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	50	—	—	—	—	—	—	3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	40	—	—	—	—	—	—	5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	30	—	—	—	—	—	—	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	

N = The number of cases the element has been observed during the month.

TN = The total number of cases the wind has been observed for all directions during the month.

Table B 3 (contd.)—NUMBER OF OCCURRENCES OF WIND DIRECTION WITHIN SPECIFIED RANGES AND THE MEAN SCALAR WIND SPEED AT THE STANDARD AND SELECTED PRESSURE SURFACES.

HELWAN (A) — SEPTEMBER 1975

Pressure Surface Millibar	Wind between specified ranges of direction (000—360) ^o															Number of calm winds	Total number of observations (TN)	Mean scalar wind speed (knots)							
	345 / 014		015 / 044		045 / 074		075 / 104		105 / 134		135 / 164		165 / 194		195 / 224		225 / 254		255 / 284						
	N m	(ft) m	N m	(ft) m	N m	(ft) m	N m	(ft) m	N m	(ft) m	N m	(ft) m	N m	(ft) m	N m	(ft) m	N m	(ft) m	N m	(ft) m					
Surface	13	7	6	8	2	12	0	—	0	—	0	—	0	—	0	—	1	2	0	—	8	7	0	30	7
1000	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	5	0	1	5
850	4	11	8	14	7	17	2	8	0	—	0	—	1	3	0	—	0	—	1	20	3	12	4	14	0
700	3	21	4	13	1	22	0	—	1	6	1	11	0	—	2	4	5	12	3	17	7	15	3	14	0
600	4	20	3	14	1	12	1	16	0	—	0	—	1	3	1	10	5	27	6	22	6	17	2	26	0
500	3	39	2	10	0	—	1	12	0	—	0	—	1	5	1	31	9	32	9	27	3	12	0	29	26
400	2	26	0	—	0	—	0	—	0	—	0	—	0	—	2	50	11	27	9	34	5	33	0	29	32
300	0	—	0	—	0	—	0	—	0	—	0	—	0	—	2	22	9	37	8	35	1	32	0	20	34
250	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	64	7	27	7	41	1	14	0	16	35
200	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	12	6	33	3	28	0	—	0	10	29
160	0	—	1	14	9	—	0	—	0	—	0	—	1	13	0	—	0	—	1	14	2	12	0	—	5
100	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	15	0	—	0	1	15
70	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
60	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
50	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
40	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
30	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
0000 U.T.																									
Surface	10	10	4	11	0	—	0	—	0	—	0	—	0	—	0	—	3	10	4	09	9	11	0	30	10
1000	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
850	5	09	13	12	8	14	2	06	0	—	0	—	1	02	0	—	0	—	0	—	1	12	0	30	11
700	4	16	2	14	0	—	2	10	0	—	1	08	0	—	0	—	5	37	9	18	6	16	1	13	0
600	5	26	3	11	2	08	0	—	1	09	0	—	0	—	1	14	6	31	8	19	4	24	0	—	30
500	6	28	1	06	1	08	0	—	0	—	0	—	0	—	1	27	11	28	5	20	4	16	0	29	21
400	4	46	0	—	1	26	0	—	0	—	0	—	0	—	1	49	11	30	7	38	5	24	0	29	33
300	2	28	0	—	0	—	0	—	0	—	0	—	0	—	0	—	9	40	13	36	2	63	0	26	39
250	0	—	0	—	0	—	0	—	0	—	0	—	0	—	2	14	11	48	4	60	2	27	0	19	45
200	0	—	0	—	0	—	0	—	0	—	0	—	1	01	1	26	6	39	6	38	1	28	0	15	34
150	0	—	0	—	0	—	0	—	0	—	0	—	1	02	1	21	2	31	4	41	0	—	0	8	31
100	0	—	0	—	0	—	0	—	0	—	0	—	1	36	1	22	0	—	—	—	0	—	0	2	29
70	0	—	0	—	0	—	0	—	0	—	0	—	—	—	—	—	—	—	—	—	—	—	—	—	—
60	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
50	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
40	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
30	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1200 U.T.																									

N. = The number of cases the wind has been observed from the range of directions during the month.

TN = The total number of cases the wind has been observed for all directions during the month.

Table B 3 (contd.)—NUMBER OF OCCURRENCES OF WIND DIRECTION WITHIN SPECIFIED RANGES AND THE MEAN SCALAR WIND SPEED AT THE STANDARD AND SELECTED PRESSURE SURFACES
ASWAN (A) — SEPTEMBER 1975

Time	Pressure Surface Millibar	Wind between specified ranges of direction (000—360) ^a														Number of calm winds	Total number of observations (TN)	Mean scalar wind Speed (knots)						
		345		015		045		075		105		135		165		195		225		255				
		/	014	/	044	/	074	/	104	/	134	/	164	/	194	/	224	/	254	/	284	/	314	/
		N	(ft)	N	(ft)	N	(ft)	N	(ft)	N	(ft)	N	(ft)	N	(ft)	N	(ft)	N	(ft)	N	(ft)	N	(ft)	
		m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m		
0000 U.T.	Surface	10	11	0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	1000	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	850	3	16	1	09	0	—	0	—	0	—	0	—	0	—	1	03	1	17	9	12	6	13	
	700	0	—	0	—	1	05	0	—	0	—	0	—	0	—	2	22	5	15	2	14	0	—	
	600	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	500	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	400	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	300	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	250	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	200	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	150	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	100	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	70	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	60	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	50	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	40	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	30	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
1200 U.T.	Surface	16	12	0	—	0	—	1	—	0	—	0	—	1	15	0	—	3	8	3	9	4	11	
	1000	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	850	1	13	1	5	0	—	0	—	0	—	0	—	1	20	3	7	9	12	9	11	6	13	
	700	0	—	0	—	0	—	0	—	0	—	1	5	3	11	9	18	11	21	4	18	0	—	
	600	0	—	0	—	0	—	0	—	0	—	1	8	7	22	10	24	6	14	1	17	1	13	
	500	0	—	0	—	1	10	1	4	1	6	3	18	1	9	8	14	3	15	1	7	5	11	
	400	0	—	0	—	1	5	5	8	1	14	1	4	2	6	3	18	4	10	3	14	3	19	
	300	0	—	0	—	2	6	3	9	3	19	1	10	3	10	3	12	3	17	2	6	3	26	
	250	0	—	0	—	2	12	5	17	1	22	5	10	2	12	5	12	2	25	0	—	0	—	
	200	0	—	0	—	0	—	7	19	0	—	4	14	4	20	2	10	2	22	0	—	0	—	
	150	0	—	0	—	1	15	3	21	1	15	3	35	2	20	1	18	0	—	1	13	0	—	
	100	0	—	0	—	1	3	0	—	2	33	0	—	0	—	1	10	0	—	0	—	0	—	
	70	0	—	0	—	1	22	1	32	0	—	0	—	0	—	0	—	0	—	0	—	0	—	
	60	0	—	0	—	0	—	1	40	0	—	0	—	0	—	0	—	0	—	0	—	0	—	
	50	0	—	0	—	0	—	0	—	1	55	0	—	0	—	0	—	0	—	0	—	0	—	
	40	0	—	0	—	0	—	1	48	0	—	0	—	0	—	0	—	0	—	0	—	0	—	
	30	0	—	0	—	0	—	1	48	0	—	0	—	0	—	0	—	0	—	0	—	0	—	
	20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	

N = The number of cases the wind has been observed from the range of directions during the month.

TN = The total number of cases the wind has been observed for all directions during the month.

REVIEW OF AGRO-METEOROLOGICAL STATIONS

MERSA MATRUH — SEPTEMBER 1975

The mean daily air temperature was nearly the same as normal. The mean daily relative humidity was above normal.

Mild weather prevailed the whole month. The highest maximum air temperature was 30.4°C (on the 9th) and the lowest was 26.4°C (on the 19th). The highest minimum air temperature was 23.5°C (on the 10th) and the lowest was 17.2°C (on the 26th).

The highest maximum soil temperatures were lower than last September at 2, 5, 10 and 50 cm. depths with departures between 1.2°C (at 2 cm.) and 0.2°C (at 5 cm.) and higher than last September at 20 and 100 cm. depths by 0.5°C and 0.3°C respectively; The lowest minimum soil temperatures were higher than last September at depths between 2 and 50 cm. with departures between 1.3°C (at 5 cm.) and 0.1°C (at 5 cm.) ; and lower than last September at 100 cm. depth by 0.2°C.

The mean daily actual sunshine duration was slightly lower than normal. The mean daily wind speed at 1.5 met. height was slightly higher than the corresponding value of September 1974.

TAHRIR — SEPTEMBER 1975

The mean daily air temperature and relative humidity departed slightly from normal.

Weather during this month was characterized by four light heat waves during the periods (1st—5th), (8th—12th), (16th—20th) and (29—30th).

The second wave yielded the highest maximum air temperature for the month (37.1°C) on the 9th. In the rest periods of the month, mild weather prevailed.

The highest maximum soil temperatures were lower than average at all depths except at 50 cm. where it was slightly higher (by 0.1°C); the departures varied between 2.6°C (at 2 cm.) and 0.1°C (at 10 cm.). The lowest minimum soil temperatures were also lower than average at all depths with departures between 1.4°C (at 5 cm.) and 0.4°C at 100 cm.).

The mean daily wind speed at 1.5 met. height was the same as normal. The mean daily actual sunshine duration was higher than normal by 0.3 hour. The mean daily pan evaporation was lower than normal by 1.20 mm.

AHTIM — SEPTEMBER 1975

The mean daily air temperature and relative humidity were nearly the same as average.

Weather during this month was generally mild, apart from a heat wave from the 8th to the 10th yielding the highest maximum air temperature (35.4°C) on the 9th.

The highest maximum soil temperatures were higher than average at all depths with departures between 1.8°C (at 5 cm.) and 0.1°C (at both 50 and 100 cm.). The lowest minimum soil temperatures were lower than average at all depths except at 100 cm. where it was the same as average; the departures varied between 0.2°C and 0.6°C.

The mean daily actual sunshine duration was lower than average by 0.6 hour. The mean daily wind speed at 1.5 met. height and pan evaporation were slightly higher than average.

KHARGA — SEPTEMBER 1975

The mean daily air temperature was slightly below normal, and the mean daily relative humidity was rather normal.

Maximum air temperatures were below normal most days of the month. The highest maximum air temperature was 39.0°C reported on the 1st, and the lowest maximum was 31.4°C reported on the 28th.

Minimum air temperature showed irregular departures below and above normal. The highest minimum air temperature was 26.0°C reported on the 1st, and the lowest minimum was 15.2°C reported on the 30th.

The highest maximum soil temperatures were below average at 2, 5, 50, and 100 cm. depths with departures between 0.4° and 1.0°C; the same as average at 10 cm. depth and higher than average by 0.8°C at 20 cm. depth. The lowest minimum soil temperatures were lowest than average at all depths with departures between 2.8°C (at 10 cm.) and 0.4°C (at 100 cm.).

The mean daily wind speed at 1.5 met. height, actual sunshine duration and pan evaporation were lower than average by 0.7 met./sec., 0.2 hour and 2.93 mm. respectively.

**Table C 1.—AIR TEMPERATURE AT 1½ METRES ABOVE GROUND
SEPTEMBER — 1975**

STATION	Air Temperature (°C)					Mean Duration in hours of daily air temperature above the following value										
	Mean Max.	Mean Min.	Mean of the day	Night time mean	Day time mean	-5°C	0°C	5°C	10°C	15°C	20°C	25°C	30°C	35°C	40°C	45°C
Mersa Matruh . . .	28.3	20.8	24.5	22.7	26.3	24.0	24.0	24.0	24.0	24.0	22.1	10.4	0.03	0.0	0.0	0.0
Tahrir	34.1	17.7	24.5	20.6	28.4	24.0	24.0	24.0	24.0	23.9	18.4	10.5	3.7	0.0	0.0	0.0
Bahtim	32.2	17.1	24.2	20.4	28.1	24.0	24.0	24.0	24.0	23.7	18.0	9.9	3.8	0.0	0.0	0.0
Kharga	35.2	21.2	23.9	26.3	31.8	24.0	24.0	24.0	24.0	23.5	19.1	10.5	1.9	0.0	0.0	0.0

**Table C 2.—EXTREME VALUES OF AIR TEMPERATURE AT 1½ METRES ABOVE GROUND,
ABSOLUTE MINIMUM AIR TEMPERATURE AT 5 cms ABOVE GROUND OVER
DIFFERENT FIELDS.**

SEPTEMBER — 1975

STATION	Max. Temp. at 1½ metres				Min. Temp. at 1½ metres (°C)				Min. Temp. at 5 cms. above			
	Highest		Lowest		Highest		Lowest		Dry soil		Grass	
	value	Date	value	Date	value	Date	value	Date	Value	Date	Value	Date
Mersa Matruh . . .	30.4	9	26.4	19	23.5	10	17.2	26	15.8	18.19	—	—
Tahrir	37.1	9	31.6	27	21.3	3	14.0	27	12.2	27	11.2	27
Bahtim	35.4	9	29.9	25	21.0	3	13.3	27	10.7	27	9.0	27
Kharga	39.0	1	31.4	28	26.0	1	15.2	30	13.2	30	—	—

Table C 3.—(SOLAR + SKY) RADIATION, DURATION OF BRIGHT SUNSHINE, RELATIVE HUMIDITY, & VAPOUR PRESSURE AT 1½ METRES ABOVE GROUND, EVAPORATION & RAINFALL.

SEPTEMBER — 1975

STATION	(Solar + Sky Radiation gm. cal/cm ²)	Duration of Bright Sunshine (hours)			Relative Humidity %				Vapour pressure (mms)				Evaporation (mms)		Rainfall (mms)				
		Total Actual monthly	Total Possible monthly	%	Mean of day	1200 U.T.	Lowest	Date	Mean of day	1200 U.T.	Highest	Date	Lowest	Date	Picke	Pan class A	Total Amount Monthly	Max. Fall in one day	Date
M. Matruh	422.2	327.1	371.4	88	73	62	50	27	18.7	17.3	25.0	9	12.2	23	8.6	—	0.0	—	—
Tahrir . .	553.0	320.1	371.0	86	72	43	27	16	16.0	15.0	21.1	10	10.3	16	5.2	7.74	0.0	—	—
Bahtim . .	525.3	300.0	370.8	81	67	38	26	29.30	14.6	13.1	19.9	10	8.4	30	6.6	8.65	0.0	—	—
Kharga . .	611.6	332.4	369.3	90	33	21	14	19	9.4	8.8	13.5	11	5.1	3	15.0	15.63	0.0	—	—

**TABLE C 4.—EXTREME SOIL TEMPERATURE AT DIFFERENT DEPTHS(cms.)
IN DIFFERENT FIELDS**

SEPTEMBER—1975

STATION	Highest (H) Lowest (L)	Extreme soil temperature (°C) in dry field at different depths (cms.)									Extreme soil temperature (°C) in grass field at different depths (cms.)								
		2	5	10	20	50	100	200	300	2	5	10	20	50	100	200	300		
Marsa Matruh . . .	H	39.7	38.1	33.4	30.6	29.4	27.4	25.2	—	—	—	—	—	—	—	—	—	—	
	L	22.2	22.1	22.7	26.0	27.3	26.0	24.0	—	—	—	—	—	—	—	—	—	—	
Tahrir	H	48.0	43.3	39.7	34.6	32.0	30.8	29.3	28.2	33.2	32.4	30.3	28.8	29.0	28.7	27.4	—	—	
	L	23.0	21.8	22.7	26.4	28.4	29.1	28.7	28.1	21.5	21.4	21.4	23.1	25.7	26.5	26.8	—	—	
Bahtim	H	53.5	45.8	39.0	34.5	32.0	30.6	28.5	26.7	35.7	30.6	29.1	28.2	27.2	26.4	24.2	—	—	
	L	25.2	24.0	25.9	29.5	30.0	29.8	28.0	26.2	21.0	21.2	22.3	24.0	25.5	25.5	23.8	—	—	
Kharga.	H	52.3	46.4	41.3	37.4	34.0	33.0	31.2	30.1	—	—	—	—	—	—	—	—	—	
	L	18.6	21.7	24.2	28.8	31.2	32.0	31.0	29.7	—	—	—	—	—	—	—	—	—	

TABLE C 5.—SURFACE WIND

SEPTEMBER — 1975

STATION	Wind Speed m/sec (1½ metres)			Days with surface wind speed at 10 metres.							Max. Gust (knots at 10 metres)	
	Mean of the day	Night time mean	Day time mean	≥ 10 knots	≥ 15 knots	≥ 20 knots	≥ 25 knots	≥ 30 knots	≥ 35 knots	≥ 40 knots	value (knots)	Date
Mersa Matruh	4.1	3.1	5.1	30	23	9	3	0	0	0	33	10
Tahrir . . .	2.0	1.2	2.8	29	2	0	0	0	0	0	24	12
Bahtim . . .	2.1	1.3	2.9	30	4	0	0	0	0	0	20	16,20,21
Kharga . . .	3.6	2.3	4.9	30	28	13	2	0	0	0	32	7

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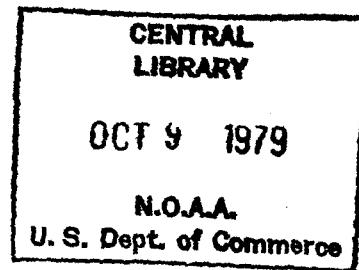
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PUBLICATIONS OF THE METEOROLOGICAL AUTHORITY OF THE ARAB REPUBLIC OF EGYPT—CAIRO

In fulfilment of its duties, the Egyptian Meteorological Authority issues several reports and publications on weather, climate and agro-meteorology. The principal publications are described on this page.

Orders for publications should be addressed to :

"Chairman of the Board of Directors, Meteorological Authority, Kubri-el-Qubbeh — CAIRO".

THE MONTHLY WEATHER REPORT

First issued in 1909, the Monthly Weather Report served to give a brief summary of the weather conditions that prevailed over Egypt during the month, with a table showing the mean values for few meteorological elements and their deviations from the normal values. From 1954 to 1957 this report was in a rapid state of development and extension resulting into a voluminous report on January 1958 giving surface, upper air, and agro-meteorological data for Egypt.

As from January 1964, the Monthly Weather Report was pressed to give climatological data for a representative selection of synoptic stations.

THE AGRO-METEOROLOGICAL ABRIDGED MONTHLY REPORT

Gives a review of weather experienced in the agro-meteorological stations of Egypt as well as monthly values of certain elements.

THE ANNUAL REPORT

This report gives annual values and statistics for the various meteorological elements, together with a summary of the weather conditions that prevailed during all months of the year.

CLIMATOLOGICAL NORMALS FOR EGYPT

A voluminous edition was issued in March 1968 which brings normals and mean values up till 1960.

METEOROLOGICAL RESEARCH BULLETIN

First issued in January 1969 on a bi-annual basis. It includes research works carried out by members of staff of "The Meteorological Institute for Research and Training" and the Operational Divisions of the Meteorological Authority.

TECHNICAL NOTES

As from October 1970, the Meteorological Authority started to issue a new series of publications in the form of Technical Notes (non periodical) on subjects related to studies and applications of meteorology in different fields for the benefit of personnel working in these fields.

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Note For explanatory notes on the tables please refer to Volume 18 number 1 (January 1975).

GENERAL SUMMARY OF WEATHER CONDITIONS

OCTOBER 1975

Generally mild weather in the northern and middle parts, rather hot in the southern parts. Two short heat waves during the second half of the month.

PRESSURE DISTRIBUTION

The prevailing pressure systems over the area were the monsoon low extending over the Arabian gulf, Arabia, Sudan and the high pressure over the Mediterranean & NE Africa.

The East Mediterranean area was affected by a depression on the 7th and a trough on the 24th.

The monthly mean barometric pressure over Egypt was generally above normal.

SURFACE WIND

Light to moderate N 1y and NW 1y winds prevailed over most districts. Winds freshened during several days over scattered places mainly in the Western Desert & Red Sea districts .

TEMPERATURE

Apart from two short heat waves during the second half of the month, maximum air temperatures were generally below normal.

Minimum air temperatures showed irregular departures below and above normal.

Departures from normal were slight to moderate.

The highest and lowest maximum air temperatures reported were respectively: 39.5°C at Aswan on the 21st. & 21.3°C at Mersa Matruh on the 31st.

The highest and lowest minimum air temperatures reported were respectively : 23.8°C at Kharga on the 22nd and 10.4°C at Farafra on the 31st.

PRECIPITATION

Precipitation was confined to light rain near the end of the month over scattered places in the Mediterranean district. The monthly rainfall was subnormal in general.

The maximum daily rainfall as 8.1 mm. over Dekheila on the 30th. This value represents also the maximum monthly rainfall.

OTHER WEATHER PHENOMENA

Early morning mist developed during several days over scattered places in Delta, Cairo & Middle Egypt.

Cairo, January 1977.

Chairman (A.F. HASAN)
Board of Directors

SURFACE DATA

**Table A 1.—MONTHLY VALUES OF THE ATMOSPHERIC PRESSURE, AIR TEMPERATURE,
RELATIVE HUMIDITY, BRIGHT SUNSHINE DURATION & PICHÉ EVAPORATION**

OCTOBER — 1975

STATION	Atmospheric Pressure (mbs) M.S.L.		Air Temperature °C								Relative Humidity %		Bright Sunshine Duration (Hours)			Piché Evaporation mm Mean	
	Mean	D.F. Normal or Average	Maximum		Minimum		A + B 2	Dry Bulb		Wet Bulb		Mean	D.F. Normal or Average	Total Actual	Total Possible	%	
			(A) Mean	D.F. Normal or Average	(B) Mean	D.F. Normal or Average		Mean	D.F. Normal or Average	Mean	D.F. Normal or Average						
Sallum	1016.8	+ 0.9	27.0	- 0.3	18.0	0.0	22.5	22.0	- 0.3	17.9	- 0.1	66	+ 4	—	—	—	7.8
Marsa Matruh, (A)	1016.9	+ 0.6	26.0	- 1.0	17.0	+ 0.1	21.5	21.4	- 0.2	17.1	- 0.7	67	+ 1	296.9	354.0	84	5.7
Alexandria . . (A)	1016.5	+ 0.7	27.4	- 0.3	17.2	- 0.4	22.3	22.1	- 0.5	18.0	- 0.8	67	+ 1	291.4	354.5	82	3.9
Port Said . . (A)	1015.2	+ 0.2	28.9	+ 1.0	20.7	- 0.9	24.8	24.0	- 0.1	20.0	- 0.2	70	+ 2	306.2	354.5	86	4.0
El Arish	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Ghazza	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tanta	1015.6	+ 0.5	29.8	- 0.2	14.4	- 0.8	22.1	21.0	- 1.0	17.3	- 0.6	72	+ 7	313.0	353.0	88	4.1
Cairo (A)	1015.2	+ 0.2	30.1	+ 0.3	17.6	- 0.2	23.8	22.5	- 0.9	17.3	- 0.8	59	+ 2	—	—	—	10.3
Fayoum	—	—	31.2	- 0.4	16.8	- 0.4	24.0	23.5	- 0.4	17.7	- 0.3	57	+ 3	—	—	—	6.3
Minya (A)	1014.9	+ 0.7	30.8	- 0.5	15.1	- 0.4	23.0	22.9	- 0.2	17.0	- 0.3	57	+ 3	310.2	357.1	87	10.0
Assyout . . . (A)	1013.9	+ 0.4	30.4	- 0.8	15.4	- 2.4	22.9	22.5	- 1.8	15.0	- 2.0	44	0	—	—	—	13.8
Luxor (A)	1011.5	- 0.3	31.8	- 0.2	16.2	- 1.0	25.5	25.4	+ 0.2	16.9	- 0.9	42	+ 3	—	—	—	7.4
Aswan (A)	1011.4	+ 0.3	35.4	- 0.9	18.7	- 0.6	27.0	26.7	- 1.1	15.4	- 0.4	26	+ 4	330.4	360.4	92	18.5
Siwa	1016.9	+ 1.2	29.3	- 1.6	14.4	- 0.6	21.8	21.9	- 1.2	15.7	- 0.3	51	+ 7	316.1	356.5	89	9.0
Rahatia	1015.4	+ 0.7	30.0	- 1.1	16.1	0.0	23.0	22.9	- 0.8	16.2	+ 0.1	50	+ 6	—	—	—	7.3
Farafra	1016.0	+ 0.6	30.4	- 0.8	15.9	+ 0.5	23.2	22.8	- 0.4	15.1	+ 0.6	42	+ 5	—	—	—	11.1
Dakhla	1015.3	+ 1.7	31.1	- 1.1	15.7	- 1.2	23.4	23.3	- 1.1	13.8	- 1.7	31	- 1	—	—	—	17.6
Kharga	1013.0	+ 0.5	32.7	- 1.3	18.1	- 0.6	25.2	26.0	- 1.2	15.9	0.0	36	+ 4	330.1	358.4	92	12.3
Tor	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hurghada	1012.1	+ 0.1	29.2	+ 0.3	20.0	+ 0.2	24.6	24.7	- 0.2	18.6	- 0.5	53	+ 2	290.6	357.7	81	10.7
Quseir	1012.1	- 0.1	28.9	- 1.1	21.7	- 1.3	25.3	25.1	- 0.7	19.2	- 0.4	55	+ 1	—	—	—	8.0

Table A 2.—MAXIMUM AND MINIMUM AIR TEMPERATURES

OCTOBER — 1975

Station	Maximum Temperature °C								Mean	Dev. From Normal	Minimum Temperature °C									
	Highest	Date	Lowest	Date	No. of Days with Max-Temp.							Highest	Date	Lowest	Date	No. of Days with Min, Temp.				
					>25	>30	>35	>40	>45		<10					<5	<0	<-5		
Sallum	34.5	19	23.7	30	26	4	0	0	0	16.9	—	20.9	20	15.4	25-31	0	0	0	0	
Mesra Matruh (A)	31.4	22	21.3	31	22	3	0	0	0	14.6	—	22.0	1	13.4	17,18	0	0	0	0	
Alexandria	34.0	23	24.0	30	25	3	0	0	0	14.5	—	21.4	9	12.8	30	0	0	0	0	
Port Said . . . (A)	31.4	4	25.6	31	31	8	0	0	0	20.4	—	23.6	19	17.4	31	0	0	0	0	
El Arish	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Ghazza	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Tanta	35.0	24	24.0	27	29	15	0	0	0	—	—	17.0	21	12.0	28	0	0	0	0	
Cairo . . . (A)	34.0	20,23	25.2	27,30	31	16	0	0	0	—	—	21.2	21	14.6	28	0	0	0	0	
Fayoum	35.2	23,24	26.0	31	31	23	2	0	0	14.3	—	19.2	20	13.1	31	0	0	0	0	
Minya . . . (A)	36.0	23	25.6	31	31	23	2	0	0	14.0	—	18.4	20	10.8	31	0	0	0	0	
Assyout . . . (A)	36.3	23	24.7	31	30	19	2	0	0	13.3	—	17.4	2	12.3	31	0	0	0	0	
Luxor . . . (A)	37.8	21	28.4	31	31	29	15	0	0	10.8	—	18.1	9	13.8	31	0	0	0	0	
Aswan . . . (A)	39.5	21	28.6	31	31	30	19	0	0	—	—	20.6	22	16.0	30,31	0	0	0	0	
Siwa	33.4	14	24.5	31	28	12	0	0	0	12.5	—	19.3	16	10.3	23	0	0	0	0	
Bahariya	34.3	24	25.3	31	31	19	0	0	0	15.3	—	18.7	4	11.2	31	0	0	0	0	
Farafra	34.2	24	25.4	28	31	21	0	0	0	14.4	—	20.1	9	10.4	31	0	0	0	0	
Dakhla	35.5	23	26.4	31	31	23	2	0	0	15.6	—	20.7	22	11.1	31	0	0	0	0	
Kharga	38.2	24	26.5	31	31	25	4	0	0	15.8	—	23.8	22	14.4	7	0	0	0	0	
Tor	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Hurghada	31.1	20	26.4	27	31	7	0	0	0	—	—	22.1	22	17.3	24	0	0	0	0	
Quseir	31.5	02-20	26.5	31	31	5	0	0	0	18.9	—	23.6	3,4	19.4	25	0	0	0	0	

Table A 3.—SKY COVER AND RAINFALL

OCTOBER — 1975

Station	Mean Sky Cover Oct.					Rainfall mms.										
	00	06	12	18	Daily Mean	Total Amount	Dev. From Normal	Max. Fall in one day		Number of Days with Amount of Rain						
	U.T.	U.T.	U.T.	U.T.	Mean			Amount	Date	<0.1	≥0.1	≥1.0	≥5.0	≥10	≥25	≥50
Sallum	3.6	2.8	3.3	2.5	3.1	4.3	— 13.5	3.7	8	0	2	1	0	0	0	0
Mersa Matruh . . . (A)	1.7	2.8	3.0	1.4	2.3	Tr.	— 18.7	Tr.	30	1	0	0	0	0	0	0
Alexandria (A)	2.1	2.8	3.1	2.4	2.6	4.8	— 5.5	3.7	30	1	2	2	0	0	0	0
Port Said (A)	1.6	2.2	1.3	1.1	1.6	0.4	— 6.9	0.4	8	0	1	0	0	0	0	0
El Arish	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Ghazza	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tanta	0.5	0.8	2.1	0.3	0.9	0.0	— 4.1	0.0	—	0	0	0	0	0	0	0
Cairo (A)	1.4	1.5	1.2	0.5	1.2	0.0	— 1.2	0.0	—	0	0	0	0	0	0	0
Fayoum	—	0.4	0.6	0.2	—	0.0	— 0.8	0.0	—	0	0	0	0	0	0	0
Minya (A)	0.0	1.0	0.4	0.0	0.2	0.0	— 0.5	0.0	—	0	0	0	0	0	0	0
Assyout. (A)	0.0	0.2	0.0	0.0	0.0	0.0	— Tr.	0.0	—	0	0	0	0	0	0	0
Luxor (A)	0.0	0.0	0.0	0.0	0.0	0.0	— Tr.	0.0	—	0	0	0	0	0	0	0
Aswan (A)	0.0	0.0	0.0	0.0	0.0	0.0	— Tr.	0.0	—	0	0	0	0	0	0	0
Siwa	0.0	0.3	0.5	0.1	0.2	0.0	— 0.5	0.0	—	0	0	0	0	0	0	0
Bahariya	0.0	1.5	0.9	0.1	0.5	0.0	— 0.2	0.0	—	0	0	0	0	0	0	0
Farsfra	—	0.3	0.4	0.0	—	0.0	— 0.7	0.0	—	0	0	0	0	0	0	0
Dakhla	0.0	0.0	0.0	0.0	0.0	0.0	— Tr.	0.0	—	0	0	0	0	0	0	0
Kharga	0.0	0.0	0.0	0.0	0.0	0.0	— Tr.	0.0	—	0	0	0	0	0	0	0
Tor	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hurghada	0.0	0.0	0.0	0.0	0.0	0.0	— 0.2	0.0	—	0	0	0	0	0	0	0
Quseir	0.0	0.0	0.0	0.0	0.0	0.0	— 0.8	0.0	—	0	0	0	0	0	0	0

Table A 4.— DAYS OF OCCURRENCE OF MISCELLANEOUS WEATHER PHENOMENA

OCTOBER -1975

Table A 5.—NUMBER IN HOURS OF OCCURRENCES OF CONCURRENT SURFACE WIND SPEED AND DIRECTION RECORDED WITHIN SPECIFIED RANGES

OCTOBER 1975

Station	Calm (hours)	Variable (hours)	Unrecorded (hours)	Wind speed in knots	Number in hours of occurrences of wind blowing from the ranges of directions indicated													
					345	015	045	075	105	135	165	195	225	255	285	315	All directions	
					/	/	/	/	/	/	/	/	/	/	/	/	/	
Sallum . . .	18	4	0	1—10	42	77	109	38	22	22	13	3	10	40	85	138	599	
				11—27	1	10	4	0	0	0	0	1	8	24	61	11	120	
				28—47	0	0	0	0	0	0	0	0	2	1	0	0	3	
				≥ 48	0	0	0	0	0	0	0	0	0	0	0	0	0	
				All speeds	43	87	113	38	22	22	13	4	20	65	146	149	122	
Mersa Matruh . .	50	0	1	1—10	151	40	5	11	6	14	35	38	90	29	24	112	555	
				11—27	46	4	0	0	0	1	7	6	15	7	4	48	138	
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0	
				≥ 48	0	0	0	0	0	0	0	0	0	0	0	0	0	
				All speeds	197	44	5	11	6	15	42	44	105	36	28	160	693	
Alexandria	29	0	0	1—10	220	32	12	7	21	15	19	10	3	9	22	327	697	
				11—27	3	0	0	0	0	0	0	0	0	0	1	14	18	
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0	
				≥ 48	0	0	0	0	0	0	0	0	0	0	0	0	0	
				All speeds	223	32	12	7	21	15	19	10	3	9	23	341	715	
Tanta	22	1	0	1—10	190	111	26	21	2	11	3	6	22	34	76	171	673	
				11—27	40	6	0	0	0	0	0	0	0	0	6	2	48	
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0	
				≥ 48	0	0	0	0	0	0	0	0	0	0	0	0	0	
				All speeds	230	117	26	21	2	11	3	6	22	34	76	173	721	
Cairo	96	2	62	1—10	137	116	40	14	2	0	3	4	8	21	45	89	479	
				11—27	39	41	2	5	1	0	0	0	0	1	0	16	105	
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0	
				≥ 48	0	0	0	0	0	0	0	0	0	0	0	0	0	
				All speeds	176	157	42	19	3	0	3	4	8	22	45	105	584	
Fayoum	1	1	0	1—10	337	281	6	0	0	0	0	7	15	12	16	37	711	
				11—27	1	30	0	0	0	0	0	0	0	0	0	0	31	
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0	
				≥ 48	0	0	0	0	0	0	0	0	0	0	0	0	0	
				All speeds	338	311	6	0	0	0	0	7	15	12	16	37	743	
Minya	21	4	0	1—10	442	74	1	0	0	0	0	0	0	0	1	3	29	550
				11—27	78	88	0	0	0	0	0	0	0	0	0	3	169	
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0	
				≥ 48	0	0	0	0	0	0	0	0	0	0	0	0	0	
				All speeds	520	162	1	0	0	0	0	0	0	0	1	3	32	719
Assyout(A)	10	0	0	1—10	116	25	1	0	0	1	2	2	4	11	51	205	418	
				11—27	152	60	0	0	0	0	0	0	0	0	2	102	316	
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0	
				≥ 48	0	0	0	0	0	0	0	0	0	0	0	0	0	
				All speeds	268	85	1	0	0	1	2	2	4	11	53	307	734	

Table A 5.—NUMBER IN HOURS OF OCCURRENCES OF CONCURRENT SURFACE
WIND SPEED AND DIRECTION RECORDED WITHIN SPECIFIED RANGES

OCTOBER — 1975

Station	Calm (hours)	Variable (hours)	Unrecorded (hours)	Wind speed in knots	Number in hours of occurrences of wind blowing from the ranges of directions indicated												All directions
					345	015	045	075	105	135	165	195	225	255	285	315	
					/014	/044	/074	/104	/134	/164	/194	/224	/254	/284	/314	/344	
Luxor . (A) . .	125	0	3	1-10	70	56	23	16	7	11	108	95	33	54	93	50	616
				11-27	0	0	0	0	0	0	0	0	0	0	0	0	0
				28-47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	70	56	23	16	7	11	103	95	33	54	93	50	616
Aswan . (A) . .	2	0	1	1-10	346	87	7	4	8	11	4	2	4	3	19	103	597
				11-27	104	18	0	0	0	0	0	0	0	0	2	20	144
				28-47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	444	105	7	4	8	11	4	2	4	3	21	128	741
Siwa	13	38	0	1-10	40	68	80	62	35	23	10	12	24	83	136	95	668
				11-27	3	5	3	0	0	0	0	0	0	1	8	5	25
				28-47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	43	73	83	62	35	23	10	12	24	84	144	100	693
Dakhla	0	0	0	1-10	99	62	11	11	0	3	4	13	24	72	127	221	647
				11-27	38	33	0	0	0	0	0	0	0	0	0	26	97
				28-47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	137	95	11	11	0	3	4	13	24	72	127	221	744
Kharga	2	1	0	1-10	324	44	25	18	5	1	1	2	2	2	11	14	60
				11-27	222	11	0	0	0	0	0	0	0	0	0	1	234
				28-47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	546	55	23	18	5	1	1	2	2	11	14	61	741
Hurghada	1	3	1	1-10	28	16	2	0	5	4	0	3	4	21	183	25	291
				11-27	118	3	0	0	0	0	0	0	0	6	125	196	448
				28-47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	146	19	2	0	5	4	0	3	4	27	308	221	739
Quseir	1	0	0	1-10	88	11	3	0	0	0	0	2	3	10	78	236	83
				11-27	111	2	0	0	0	0	0	0	0	0	16	100	229
				28-47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	193	13	3	0	0	0	0	2	3	10	78	252	183

UPPER AIR CLIMATOLOGICAL DATA

Table B 1. MONTHLY MEANS AND MONTHLY ABSOLUTE HIGHER, LOWER
 VALEUS OF ALTITUDE, AIR TEMBERATURE & DEW POINT AT
 STANDARD AND SELECTED PRESSURE SURFACES
 OCTOBER—1975

Station	Pressure Surface (Millibar)	Altitude of Pressure Surface (gpm)				Temperature (°C)				Dew Point (°C)	
		N	Mean	Highest	Lowest	N	Mean	Highest	Lowest	N	Mean
Menia Matruh 0000 T.U.	Surface	29	1013mb.	1018mb.	1011mb.	29	20.2	25.0	17.0	29	13.4
	1000	29	145	180	123	29	19.7	23.9	15.8	29	13.2
	850	29	1525	1549	1502	29	11.7	17.9	04.6	29	11.6
	700	29	3130	3174	3067	29	3.8	9.7	-1.2	29	-14.2
	600	29	4338	4431	4287	29	-3.0	2.8	-11.2	29	-21.9
	500	29	5784	5867	565	29	-12.2	6.4	-19.0	29	-30.5
	400	29	7450	7553	7293	29	-23.7	-19.1	-29.3	29	-39.8
	300	29	9495	9627	9303	29	-33.0	-33.3	-43.1	29	-53.1
	250	29	10723	10881	10519	29	-46.9	-41.6	-52.5	29	-60.8
	200	28	12174	12355	11972	28	-54.6	-51.6	-60.3	28	-69.5
	150	27	13982	14161	13802	27	-62.5	-57.8	-67.7	1	-87.5
	100	22	16431	16583	16265	22	-70.1	-64.9	-78.1	—	—
	70	12	18567	18699	18398	12	-66.7	-65.0	-71.5	—	—
	60	9	19541	19700	19420	9	-62.8	-58.8	-65.0	—	—
	50	9	20648	20784	20479	9	-61.1	-60.1	-63.3	—	—
	40	7	22101	22300	21970	7	-58.4	-56.6	-60.0	—	—
	30	6	23837	24019	23691	6	-55.2	-52.5	-57.2	—	—
	20	2	26475	26585	26365	2	-50.4	-49.7	-51.1	—	—
	10	—	—	—	—	—	—	—	—	—	—
Heliwan 0000 U.T.	Surface	31	* 999mb.	* 1002mb.	* 996mb.	31	19.8	24.0	16.0	31	14.0
	1000	29	131	161	102	13	18.6	20.5	16.0	13	14.4
	850	29	1520	1549	1498	29	14.4	20.2	8.5	29	-0.8
	700	29	3140	3186	3087	28	6.5	10.5	3.0	28	-11.8
	600	29	4391	4451	4317	29	-0.3	4.0	-8.3	29	-18.6
	500	29	5826	5896	5822	28	-9.4	-4.7	-14.9	28	-26.0
	400	29	7515	7586	7395	29	-20.8	-15.4	-25.6	29	-36.9
	300	28	9582	9697	9457	28	-35.1	-30.1	-39.8	28	-48.3
	250	27	10826	10914	10694	27	-43.7	-39.3	-47.1	26	-56.2
	200	21	12304	12463	12144	21	-52.5	-48.1	-56.6	20	-63.3
	150	11	14178	14323	14073	11	-61.4	-55.6	-67.0	4	-70.3
	100	1	16700	—	—	1	-72.0	—	—	—	—
	70	—	—	—	—	—	—	—	—	—	—
	60	—	—	—	—	—	—	—	—	—	—
	50	—	—	—	—	—	—	—	—	—	—
	40	—	—	—	—	—	—	—	—	—	—
	30	—	—	—	—	—	—	—	—	—	—
	20	—	—	—	—	—	—	—	—	—	—
	10	—	—	—	—	—	—	—	—	—	—
Assuan 0000 U.T.	Surface	30	* 990mb.	* 999mb.	* 987mb.	30	21.3	23.1	17.9	30	4.7
	1000	30	106	127	80	—	—	—	—	—	—
	850	30	1519	1545	1495	30	19.2	22.7	16.0	30	-1.1
	700	30	3155	3182	3135	30	8.8	13.0	6.0	30	-10.1
	600	28	4416	4454	4388	28	2.4	4.8	-0.4	28	-18.3
	500	26	5819	5925	5837	26	-6.7	-3.5	-8.8	26	-25.5
	400	25	7572	7642	7518	25	-18.9	-16.5	-21.8	25	-35.2
	300	23	9649	9718	9569	23	-34.1	-31.7	-35.8	21	-47.8
	250	16	10903	10939	10850	16	-43.4	-43.1	-45.2	18	-56.1
	200	9	12371	12410	12315	9	-54.1	-53.0	-55.2	9	-65.1
	150	3	14169	14179	14186	3	-63.0	-62.4	-66.3	—	—
	100	—	—	—	—	—	—	—	—	—	—
	70	—	—	—	—	—	—	—	—	—	—
	60	—	—	—	—	—	—	—	—	—	—
	50	—	—	—	—	—	—	—	—	—	—
	40	—	—	—	—	—	—	—	—	—	—
	30	—	—	—	—	—	—	—	—	—	—
	20	—	—	—	—	—	—	—	—	—	—
	10	—	—	—	—	—	—	—	—	—	—

N = The Number of cases the element has been observed during the month.

* The atmospheric pressure corrected to the elevation of the radiosonde station.

UPPER AIR CLIMATOLOGICAL DATA

Table B 1.(cont.)—MONTHLY MEANS AND MONTHLY ABSOLUTE HIGHER & LOWER
VALUES OF ALTITUDE, AIR TEMPERATURE & DEW POINT AT
STANDARD AND SELECTED PRESSURE SURFACES

OCTOBER — 1975

Station	Pressure Surface Millibar	Altitude of Pressure Surface (gpm)				Temperature (°C)				Dew Point (°C)	
		N	Mean	Highest	Lowest	N	Mean	Highest	Lowest	N	Mean
Mars Matruh 1200 U.T.	Surface	30	1013m.b.	1017m.b.	1010m.b.	30	25.0	27.8	20.7	30	14.6
	1000	30	145	175	124	30	27.2	29.5	19.4	30	12.0
	850	30	1532	1571	1423	30	13.6	21.6	6.4	30	-1.5
	700	30	3141	3194	3022	30	5.1	9.8	0.2	30	-14.3
	600	30	4391	4446	4266	30	-1.8	3.2	-8.5	30	-20.9
	500	29	5816	5883	5696	29	-10.8	-6.5	-19.2	29	-28.8
	400	29	7497	7587	7363	29	-22.4	-15.9	-28.5	29	-39.4
	300	29	9486	9716	9377	29	-36.4	-31.8	-41.0	29	-51.2
	250	29	10803	11070	10007	29	-45.1	-40.6	-50.3	29	-58.6
	200	29	12268	12548	12067	29	-53.2	-50.1	-56.3	29	-65.7
	150	26	14080	14370	13912	26	-60.9	-56.0	-61.4	26	-69.3
	100	22	16567	16850	16411	22	-69.2	-63.5	-78.4	—	—
	70	9	18717	18790	18634	9	-66.1	-60.0	-71.1	—	—
	60	6	19683	19770	19630	6	-61.8	-59.7	-66.0	—	—
	50	6	20788	20880	20728	6	-57.3	-54.4	-58.0	—	—
	40	2	22100	22300	21900	2	-54.3	-53.3	-55.3	—	—
	30	1	24089	—	—	1	-49.5	—	—	—	—
	20	1	26779	—	—	1	-44.3	—	—	—	—
	10	—	—	—	—	—	—	—	—	—	—
Kharga 1200 U.T.	Surface	31	998m.b.	1002m.b.	993m.b.	31	28.4	33.2	23.8	31	10.4
	1000	30	121	153	81	8	26.0	29.6	23.8	8	9.4
	850	30	1530	1556	1506	30	15.7	22.1	7.4	29	0.7
	700	30	3155	3194	3094	30	7.5	13.1	1.1	29	-14.0
	600	30	4410	4473	4331	30	1.5	5.8	-4.0	29	-20.7
	500	30	5856	5941	5752	30	-7.3	-2.9	-12.4	29	-28.1
	400	30	7559	7664	7432	30	-18.1	-12.3	-22.7	29	-36.6
	300	30	9654	9743	9516	30	-31.9	-26.0	-38.0	29	-47.5
	250	28	10917	11042	10776	28	-40.0	-34.5	-46.9	27	-54.0
	200	22	12433	12569	12230	22	-48.1	-45.2	-55.3	19	-60.9
	150	19	14293	14449	14131	19	-56.4	-53.7	-60.2	16	-68.0
	100	11	16829	16983	1605	11	-63.1	-55.8	-68.4	1	-74.8
	70	3	19134	19170	19116	3	-57.2	-55.3	-58.2	—	—
	60	—	—	—	—	—	—	—	—	—	—
	50	—	—	—	—	—	—	—	—	—	—
	40	—	—	—	—	—	—	—	—	—	—
	30	—	—	—	—	—	—	—	—	—	—
	20	—	—	—	—	—	—	—	—	—	—
	10	—	—	—	—	—	—	—	—	—	—
Aswan 1200 U.T.	Surface	31	990m.h.	992m.b.	987m.b.	31	34.6	39.0	28.5	31	5.8
	1000	31	097	122	073	—	—	—	—	—	—
	850	31	1534	1569	1511	31	21.7	25.6	16.1	31	-4.5
	700	30	3185	3232	3160	30	10.8	13.8	7.5	30	-14.3
	600	30	4455	4505	4418	30	4.2	7.7	0.8	30	-20.3
	500	29	5918	5973	5876	29	-4.3	-1.2	-7.9	29	-27.5
	400	28	7641	7783	7584	28	-16.4	-14.0	-20.1	28	-36.8
	300	28	9730	9819	9658	28	-31.4	-28.1	-34.6	28	-49.0
	250	27	11005	11104	10916	27	-40.7	-35.0	-43.3	25	-58.7
	200	15	12487	12615	12396	15	-51.5	-45.7	-53.8	15	-51.5
	150	5	14283	14321	14206	5	-64.8	-60.4	-66.9	—	—
	100	—	—	—	—	—	—	—	—	—	—
	70	—	—	—	—	—	—	—	—	—	—
	60	—	—	—	—	—	—	—	—	—	—
	50	—	—	—	—	—	—	—	—	—	—
	40	—	—	—	—	—	—	—	—	—	—
	30	—	—	—	—	—	—	—	—	—	—
	20	—	—	—	—	—	—	—	—	—	—
	10	—	—	—	—	—	—	—	—	—	—

N — The number of cases the element has been observed during the month.

* The atmospheric pressure corrected to the elevation of the radiosonde station.

Table B 2.—MEAN AND EXTREME VALUES OF THE FREEZING LEVEL AND THE TROPOPAUSE.
THE HIGHEST WIND SPEED IN THE UPPER AIR

OCTOBER — 1975

Station	Freezing Level												First Tropopause												Highest wind speed			
	Mean			Highest			Lowest			Mean			Highest			Lowest			Altitude (gpm)		Pressure (mb.)		Direction (000—360)		Speed in Knots			
	Altitude (gpm)	Pressure (mb.)	Dew point (°C)	Altitude (gpm)	Pressure (mb.)	Dew point (°C)	Altitude (gpm)	Pressure (mb.)	Dew point (°C)	Altitude (gpm)	Pressure (mb.)	Temperature (°C)	Altitude (gpm)	Pressure (mb.)	Temperature (°C)													
0000 U.T.	(N)	(N)	(N)							(N)	(N)	(N)																
	M. Matruh (A)	3819 (29)	648 (29)	-16.9 (29)	4940	562	-28.0	2320	770	-0.8	14741 (13)	132 (13)	-66.7 (13)	16600	098	-72.5	11800	270	-55.3	2680	-	255	39					
	Helwan . . .	4314 (29)	604 (29)	-18.0 (29)	5020	558	-14.3	3270	685	-10.7	-	-	-	-	-	-	-	-	-	-	-	12630	233	265	132			
1200 U.T.	M. Matruh (A)	4780 (27)	578 (27)	-19.0 (27)	5420	530	-21.4	3950	633	-4.8	-	-	-	-	-	-	-	-	-	-	-	2330	-	275	38			
	Helwan . . .	4095 (29)	652 (29)	-19.0 (29)	4670	583	-25.9	2650	736	-1.3	14795 (15)	141 (15)	-64.4 (15)	17490	086	-70.8	10750	247	-50.8	10970	243	225	128					
	Aswan . . (A)	4627 (30)	586 (30)	-21.1 (29)	5380	537	-21.5	2590	747	-16.0	14998 (6)	137 (6)	-59.6 (6)	17080	98	-65.9	12250	205	-51.7	10910	247	275	124					
	M. Matruh (A)	5329 (30)	547 (30)	-24.0 (30)	5780	509	-22.7	4650	588	-22.1	-	-	-	-	-	-	-	-	-	-	-	11850	-	050	55			

N = The number of cases the element has been observed during the month.

Table B 3. (contd.)—NUMBER OF OCCURRENCES OF WIND DIRECTION WITHIN SPECIFIED RANGES AND THE MEAN SCALAR WIND SPEED AT THE STANDARD AND SELECTED PRESSURE SURFACES
MERSA MATRUH (A) OCTOBER 1975

Time	Pressure Surface (Millibar.)	Wind between specified ranges of direction (000—360°)														Number of Calm winds	Total Number of Observations (T.N.)	Mean Scalar wind Speed (Knots)										
		345		015		045		075		105		135		165		195		225		255								
		345	014	015	044	045	074	075	104	105	134	135	164	165	194	195	224	225	254	255	284	285	314	315	344			
		N	(ft)	N	(ft)	N	(ft)	N	(ft)	N	(ft)	N	(ft)	N	(ft)	N	(ft)	N	(ft)	N	(ft)	N	(ft)	N	(ft)			
0000 U.T.	Surface	8	07	0	—	0	—	4	02	0	—	0	—	0	—	5	03	5	07	1	04	0	—	4	08			
	1000	1	13	0	—	3	06	2	06	0	—	0	—	0	—	2	03	2	10	1	12	4	15	3	12			
	850	1	11	1	08	1	03	2	08	0	—	0	—	2	04	2	12	1	20	3	19	3	20	2	10			
	700	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
	600	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
	500	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
	400	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
	300	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
	250	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
	200	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
	150	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
	100	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
	70	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
	60	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
	50	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
	40	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
	30	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
	20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
1200 U.T.	Surface	10	10	4	9	1	9	0	—	0	—	0	—	0	—	1	5	0	—	1	24	1	10	2	14	10	10	
	1000	3	13	2	9	0	—	0	—	0	—	0	—	0	—	1	8	0	—	1	13	2	24	6	12	11	14	
	850	4	11	0	—	4	12	0	—	0	—	0	—	0	—	2	23	4	19	6	15	3	10	0	0	26	14	
	700	1	19	1	4	0	—	1	14	0	—	0	—	0	—	2	30	5	18	4	14	2	8	4	8	0	20	
	600	0	—	0	—	0	—	0	—	0	—	0	—	0	—	2	54	8	32	4	24	2	26	0	0	18	19	
	500	0	—	0	—	0	—	0	—	0	—	0	—	0	—	3	53	10	42	3	32	0	—	0	0	0	32	
	400	0	—	0	—	0	—	0	—	0	—	0	—	0	—	2	61	11	71	1	73	0	—	0	0	0	16	
	300	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	76	11	72	1	64	0	—	0	0	0	42	
	250	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	9	83	2	76	0	—	0	0	0	14	
	200	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	104	4	78	2	69	0	—	0	0	0	13	
	150	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	47	3	50	1	30	0	—	0	0	0	71	
	100	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	47	3	50	1	30	0	—	0	0	0	11	
	70	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	7	79	
	60	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5	46	
	50	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	40	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	30	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

T.N. The total number of cases the element has been observed during the month.

Tabl B 3.—NUMBER OF OCCURRENCES F WIND DIRECTION WITHIN SPECIFIED RANGES AND THE MEAN SCALAR SCALAR WIND SPEED AT THE STANDARD AND SELECTED PRESSURE SURFACES
HELWAN (A) – OCTOBER 1975

Time	Pressure Surface (Millibar.)	Wind between ranges of direction (000—360)														Number of Calm winds	Total number of Observations (TN)	Mean scalar wind speed (knots)							
		345		015		045		075		105		135		165		195		225		255		285			
		014	044	014	044	074	104	134	164	194	224	254	284	314	344										
		N	m	N	m	N	m	N	m	N	m	N	m	N	m	N	m	N	m	N	m	N	m		
0000 T.U.	Surface	13	8	11	10	2	11	1	12	0	—	0	—	0	—	0	—	0	—	0	—	4	4		
	1000	5	9	6	15	0	—	0	0	—	0	—	0	—	0	—	0	—	0	—	0	0	31		
	850	5	13	11	14	4	15	3	8	1	3	1	7	0	—	1	4	0	—	0	—	2	4		
	700	5	11	3	19	1	6	1	5	0	—	0	—	0	—	1	24	4	14	4	16	3	9		
	600	6	14	0	—	0	—	0	0	—	1	12	0	—	0	—	2	20	8	34	7	23	5	18	
	500	1	36	0	—	0	—	0	0	—	0	—	0	—	1	61	13	37	10	31	4	23	0	29	
	400	2	48	0	—	0	—	0	0	—	0	—	0	—	0	—	13	45	11	46	3	38	0	29	
	300	1	68	0	—	0	—	0	0	—	0	—	0	—	8	79	14	58	2	60	0	25	6	66	
	250	1	69	0	—	0	—	0	0	—	0	—	0	—	7	88	9	64	1	53	0	18	73	89	
	200	0	—	0	—	0	—	0	0	—	0	—	0	—	2	114	5	91	2	60	0	9	—	—	
	150	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	100	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	70	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	60	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	50	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	40	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	30	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
1200 U.T.	Surface	13	11	9	11	0	—	1	14	0	—	0	—	0	—	0	—	1	4	2	9	2	5		
	1000	5	11	2	10	0	—	0	0	—	0	—	0	—	0	—	0	—	0	—	1	5	0	31	
	850	3	7	5	10	11	14	5	13	0	—	1	2	0	—	1	11	1	2	1	17	1	12	8	10
	700	3	15	3	26	2	12	1	4	0	—	0	—	0	—	2	6	5	24	5	13	8	11	0	30
	600	3	25	0	—	0	—	0	0	—	0	—	0	—	0	—	3	14	9	25	11	21	5	15	
	500	2	32	0	—	0	—	0	0	—	0	—	0	—	0	—	3	26	7	40	16	31	2	32	
	400	1	49	0	—	0	—	0	0	—	0	—	0	—	0	—	0	—	5	45	21	48	2	48	
	300	0	—	0	—	0	—	0	0	—	0	—	0	—	0	—	0	—	5	61	15	63	2	65	
	250	0	—	0	—	0	—	0	0	—	0	—	0	—	0	—	0	—	5	86	9	74	1	31	
	200	0	—	0	—	0	—	0	0	—	0	—	0	—	0	—	1	64	2	70	2	82	1	75	
	150	0	—	0	—	0	—	0	0	—	0	—	0	—	0	—	0	—	0	—	2	77	1	61	
	100	0	—	0	—	0	—	0	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	21	
	70	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	60	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	50	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	40	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	30	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	

N = The number of cases the wind has been observed from the range of direction during the month.

=T.N The total number of cases the wind has been observed for all directions during the month.

Table B 3. (Contd.)—NUMBER OF OCCURRENCES OF WIND DIRECTION WITHIN SPECIFIED RANGES AND THE MEAN SCALAR WIND SPEED AT THE STANDARD AND SELECTED PRESSURE SURFACES
ASWAN (A) — OCTOBER 1975

TIME	Pressure Surface (Millibar)	Wind between specified ranges of direction (000—360) ^a														Number of Calm winds	Total Number of Observations (TN)	Mean Scalar wind										
		345		015		045		075		105		135		165		195		225		255		285						
		/	014	/	044	/	074	/	104	/	134	/	164	/	194	/	224	/	254	/	284	/	314	/	344			
		N	(ft) m	N	(ft) m	N	(ft) m	N	(ft) m	N	(ft) m	N	(ft) m	N	(ft) m	N	(ft) m	N	(ft) m	N	(ft) m	N	(ft) m					
0600 U.T.	Surface	20	10	2	8	2	8	0	—	0	—	1	10	0	—	0	—	0	—	0	—	3	5	2	30	8		
	1000	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
	850	2	7	3	10	2	10	3	10	1	5	2	10	0	—	0	—	1	7	0	—	5	12	11	12	0		
	700	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
	600	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
	500	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
	400	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
	300	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
	250	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
	200	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
	150	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
	100	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
	70	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
	60	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
	50	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
	40	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
	30	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
	20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
1200 U.T.	Surface	18	08	3	07	0	—	0	—	1	07	2	04	1	06	0	—	1	05	0	—	1	10	3	07	1	31	7
	1000	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
	850	2	12	3	6	3	11	1	07	3	10	4	06	1	16	0	—	4	08	2	06	5	08	3	09	0	31	9
	700	0	—	0	—	1	13	0	—	2	12	2	08	4	11	3	13	7	21	6	15	3	13	2	07	0	30	14
	600	0	—	2	04	0	—	1	04	1	08	2	69	3	11	4	09	8	17	5	14	4	13	0	—	0	30	12
	500	1	14	2	10	0	—	0	—	1	07	0	—	3	11	4	14	8	15	3	17	4	11	3	10	0	29	13
	400	0	—	1	04	0	—	0	—	0	—	0	—	2	04	3	22	12	18	5	21	4	17	1	03	0	28	17
	300	1	19	0	—	1	32	0	—	0	—	0	—	2	24	11	29	9	24	1	22	1	15	0	—	0	26	26
	250	0	—	1	13	0	—	0	—	0	—	0	—	2	22	8	24	7	29	1	42	0	—	0	—	0	19	25
	200	0	—	0	—	1	36	0	—	0	—	0	—	1	11	4	23	3	37	0	—	0	—	0	—	0	9	28
	150	0	—	0	—	0	—	0	—	0	—	0	—	1	21	0	—	0	—	0	—	0	—	0	—	0	1	21
	100	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	70	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	60	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	50	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	40	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	30	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

N= The number of cases the wind has been observed from the range of direction during the month.

TN= The total number of cases the wind has been observed for all directions during the month.

REVIEW OF AGRO-METEOROLOGICAL STATIONS

MERSA MATRUH — OCTOBER 1975

The mean daily air temperature and relative humidity were nearly the same as normal. No rain was reported apart from trace on the 30th, while the normal monthly rainfall is 18.7 mm.

Weather during the month was generally mild apart from three warm spells on the 7th, (19th & 20th) and (22nd & 23rd). The last spell yielded the highest maximum air temperature (31.4°C) on the 22nd.

The highest maximum soil temperature was lower than last October at all depths except at 10 & 50 cm. depths where it was higher. The lowest minimum soil temperature was higher than last October at 2,5 & 100 cm. depths ; the same as last October at 10 cm. lower than last October at 20 & 50 cm. All the soil temperature departures were slight and ranged between 0.1° and 0.8°C .

The mean daily actual sunshine duration was higher than normal by 0.9 hour. The mean daily wind speed at 1.5 met. height was nearly the same as the corresponding value of October 1974.

TAHRIR — OCTOBER 1975

The mean daily air temperature and relative humidity were nearly the same as normal. The month was rainless apart from 0.1 mm on the 31st, while the monthly rainfall normal is 2.4 mm.

Weather was characterized by five warm spells in the period (1st — 3rd), on the 8th and the periods (14 — 16), (19 — 21) & (23 & 24). The last spell yielded the highest maximum air temperature for the month (36.5°C) on the 24th. In the rest of the month weather was mild.

The highest maximum soil temperatures were lower than average at all depths with departures between 2.8°C (at 2 cm.) and 0.3°C (at 50cm.). The lowest minimum soil temperatures were lower than average at 2,5 & 10 cm. depths with departures between 0.4° & 0.8°C , and higher than average at 20,50 & 100 cm. depths with departures between 0.1° & 0.3°C .

The mean daily actual sunshine duration was higher than average by 0.4 hour. The mean daily wind speed at 1.5 met. height and pan evaporation were slightly lower than average.

BAHTIM — OCTOBER 1975

The mean daily air temperature and relative humidity were nearly the same as average.

Weather during the month was generally mild, intervened by three warm spells on the 8th, in the periods (19th & 20th) and (23rd & 24th). The last spell yielded the highest maximum air temperature for the month (33.4°C) on the 23rd.

The highest maximum soil temperatures were higher than average at depths between 2 & 20 cm. with departures between 4.3°C (at 2 cm.) and 0.1°C (at 20 cm.), lower than average at 50 cm. by 0.1°G ; the same as average at 100 cm. The lowest minimum soil temperatures were higher than average at all depths except at 10 cm. where it was lower by 0.3°C ; the departures varied between 1.5°C (at 2 cm.) and 0.2°C (at 50 cm.).

The mean daily actual sunshine duration was slightly lower than average. The mean daily wind speed at 1.5 met height and pan evaporation were slightly higher than average.

KHARGA — OCTOBER 1975

The mean daily air temperature and relative humidity were nearly the same as normal.

The month was intervened by three heat waves on the 12th and in the periods (15th—17th) & (19—25).

The last wave yielded the highest maximum air temperature (38.2°C) on the 24th. In the rest of the month, mild weather was experienced.

The highest maximum soil temperatures were higher than average at 2,5,10 cm. depths with departures between 1.8°C & 0.8°C ; and lower than average at 20,50,100 cm. depths with departures between 1.5°C & 0.6°C . The lowest minimum soil temperatures were higher than average at 2 & 5 cm. depths by 1.3°C & 0.3°C respectively; and lower than average at 10, 20, 50 & 100 cm. depths with departures between 1.3°C (at 10 cm.) & 0.1°C (at 100 cm.).

The mean daily actual sunshine duration, wind speed at 1.5 met. and pan evaporation were slightly lower than normal.

**TABLE C 1.—AIR TEMPERATURE AT 1½ METRES ABOVE GROUND
OCTOBER — 1975**

STATION	Air Temperature (°C)					Mean Duration in hours of daily air temperature above the following values											
	Mean Max.	Mean Min.	Mean of the day	Night time mean	Day time mean	-5°C	0°C	5°C	10°C	15°C	20°C	25°C	30°C	35°C	40°C	45°C	
Mersa Matruh	26.0	17.0	21.4	19.4	23.6	24.0	24.0	24.0	24.0	23.6	15.8	3.4	0.1	0.0	0.0	0.0	
Tahrir	31.3	14.2	21.6	17.7	23.6	24.0	24.0	24.0	21.0	21.5	13.5	6.6	1.3	0.0	0.0	0.0	
Bahtim	29.4	13.9	21.6	17.8	25.4	24.0	24.0	24.0	24.0	20.9	13.4	6.6	1.2	0.0	0.0	0.0	
Kharga	32.7	18.1	26.1	23.6	28.8	24.0	24.0	24.0	24.0	21.9	13.6	5.5	0.4	0.0	0.0	0.0	

**TABLE C 2.—EXTREME VALUES OF AIR TEMPERATURE AT 1½ METRES ABOVE GROUND,
ABSOLUTE MINIMUM AIR TEMPERATURE AT 5cms ABOVE GROUND
OVER DIFFERENT FIELDS**

OCTOBER — 1975

STATION	Max. Temp. at 1½ metres (°C)				Min. Temp. at 1½ metres (°C)				Min. Temp. at 5 cms. above (°C)			
	Highest		Lowest		Highest		Lowest		Dry soil		Grass	
	Value	Date	Value	Date	Value	Date	Value	Date	Value	Date	Value	Date
Mersa Matruh	31.4	22	21.3	31	22.0	1	13.4	17,18	9.2	17	—	—
Tahrir	36.5	24	26.8	29	18.7	21	11.4	28	9.6	28	8.4	28
Bahtim	33.4	23	24.7	27	19.4	20	11.0	27,29	8.2	31	6.7	31
Kharga	38.2	24	26.5	31	23.8	22	14.4	7	11.4	8	—	—

TABLE C 3.— SOLAR + SKY) RADIATION, DURATION OF BRIGHT SUNSHINE, RELATIVE HUMIDITY, VAPOUR PRESSURE AT 1½ METRES ABOVE GROUND, EVAPORATION & RAINFALL

OCTOBER — 1975

STATION	Solar+Sky Radiation g.m. cal/cm ²	Duration of Bright Sunshine (hours)			Relative Humidity %				Vapour pressure (mms)					Evaporation(mms)	Rainfall (mms)					
		Total monthly	Actual monthly	Total Possible monthly	%	Mean of day	1200 U.T.	Lowest	Date	Mean of day	1200 UT	Highest	Date	Lowest	Date	Piche	Pen class A	Total Amount Monthly	Max. Fall in one day	Date
Mersa Matruh	315.0	296.9	354.0	84	67	56	26	22	12.9	13.7	17.4	13	7.7	23	5.7	—	Tr.	Tr.	30	
Tahrir	444.5	302.4	355.0	85	70	42	23	24	13.1	12.3	18.8	21	9.1	24	4.6	5.96	0.1	0.1	31	
Bahtim	441.7	294.9	355.5	83	66	39	18	23	12.2	11.4	18.0	20	7.0	23	6.5	7.36	0.0	—	—	
Kharga	515.3	330.1	358.4	92	35	25	9	24	9.6	8.6	12.6	13	3.3	25	12.3	13.42	0.0	—	—	

**Table C 4.—EXTREME SOIL TEMPERATURE AT DIFFERENT DEPTHS (cms)
IN DIFFERENT FIELDS**

OCTOBER— 1975

STATION	Highest (H) Lowest (L)	Extreme soil temperature (°C) in dry field at different depths (cms.)									Extreme soil temperature (°C) in grass field at different depths (cms.)								
		2	5	10	20	50	100	200	300		2	5	10	20	50	100	200	300	
M. Matruh	H	36.2	34.4	30.8	27.2	27.8	26.4	25.2	—	—	—	—	—	—	—	—	—	—	
	L	17.2	17.8	19.0	21.8	24.0	24.5	24.6	—	—	—	—	—	—	—	—	—	—	
Tahrir	H	42.1	38.1	34.3	30.5	29.1	28.9	28.6	28.1	31.3	29.8	28.4	26.7	26.0	26.3	26.8	—	—	
	L	16.6	16.6	18.3	22.2	24.6	26.1	27.0	27.3	17.4	17.8	18.4	20.0	22.3	23.6	25.0	—	—	
Bahtim.	H	49.2	40.8	34.6	31.0	30.1	29.8	28.4	27.0	30.6	26.7	25.2	24.8	25.3	25.4	24.2	—	—	
	L	20.5	19.0	21.4	25.3	27.1	28.1	28.0	26.8	17.6	17.2	18.4	20.1	22.2	23.3	23.6	—	—	
Kharga.	H	49.9	43.0	37.7	32.6	31.2	31.7	31.1	30.4	—	—	—	—	—	—	—	—	—	
	L	15.5	18.2	20.3	24.8	28.6	30.1	30.3	29.8	—	—	—	—	—	—	—	—	—	

Table C 5.—SURFACE WIND

OCTOBER — 1975

STATION	Wind Speed m/sec at 1½ metres			Days with surface wind speed at 10 metres							Max. Gust (knots at 10 metres)	
	Mean of th day	Night time mean	Day time mean	≥ 10 knots	≥ 15 knots	≥ 20 knots	≥ 25 knots	≥ 30 knots	≥ 35 knots	≥ 40 knots	value knots	Date
M. Matruh . . .	2.7	1.9	3.6	31	19	5	0	0	0	0	28	23
Tahrir . . .	1.8	1.0	2.6	31	5	0	0	0	0	0	25	21
Bahtim. . . .	2.2	1.3	3.1	29	11	0	0	0	0	0	25	11
Kharga	3.4	2.6	4.2	31	26	11	3	0	0	0	32	27

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THE EGYPTIAN METEOROLOGICAL AUTHORITY
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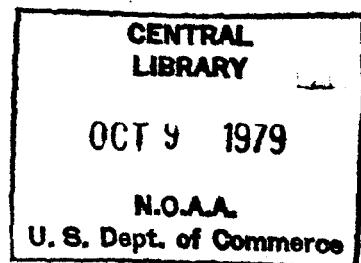
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PUBLICATIONS OF THE METEOROLOGICAL AUTHORITY OF THE ARAB REPUBLIC OF EGYPT—CAIRO

In fulfilment of its duties, the Egyptian Meteorological Authority issues several reports and publications on weather, climate and agro-meteorology. The principal publications are described on this page.

Orders for publications should be addressed to :

"Chairman of the Board of Directors, Meteorological Authority, Kubri-el-Qubbeh — CAIRO".

THE MONTHLY WEATHER REPORT

First issued in 1909, the Monthly Weather Report served to give a brief summary of the weather conditions that prevailed over Egypt during the month, with a table showing the mean values for few meteorological elements and their deviations from the normal values. From 1954 to 1957 this report was in a rapid state of development and extension resulting into a voluminous report on January 1958 giving surface, upper air, and agro-meteorological data for Egypt.

As from January 1964, the Monthly Weather Report was pressed to give climatological data for a representative selection of synoptic stations.

THE AGRO-METEOROLOGICAL ABRIDGED MONTHLY REPORT

Gives a review of weather experienced in the agro-meteorological stations of Egypt as well as monthly values of certain elements.

THE ANNUAL REPORT

This report gives annual values and statistics for the various meteorological elements, together with a summary of the weather conditions that prevailed during all months of the year.

CLIMATOLOGICAL NORMALS FOR EGYPT

A voluminous edition was issued in March 1968 which brings normals and mean values up till 1960.

METEOROLOGICAL RESEARCH BULLETIN

First issued in January 1969 on a bi-annual basis. It includes research works carried out by members of staff of "The Meteorological Institute for Research and Training" and the Operational Divisions of the Meteorological Authority.

TECHNICAL NOTES

As from October 1970, the Meteorological Authority started to issue a new series of publications in the form of Technical Notes (non periodical) on subjects related to studies and applications of meteorology in different fields for the benefit of personnel working in these fields.

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Note For explanatory notes on the tables please refer to Volume 18 number 1(January 1975).

GENERAL SUMMARY OF WEATHER CONDITIONS

NOVEMBER 1975

Normal autumn weather, intervened by a pronounced warm spell during the second half of the month. Subnormal rainfall.

PRESSURE DISTRIBUTION

The East Mediterranean area was traversed by a trough of low pressure on the 25 th and a depression on the 30 th. Otherwise, pressure was mainly influenced by high pressure over East Mediterranean & NE Africa and low pressure over Sudan & Arabia.

Mean pressure was generally above normal.

SURFACE WIND

Surface winds were generally light to moderate, and blew mostly from NE to NW directions but from W to SW directions during some days. Winds freshened during several days in scattered places, mainly in Western Desert, Upper Egypt and Red Sea Districts.

TEMPERATURE

A pronounced warm spell was experienced between the 16 th & 24 th when maximum air temperatures were above normal. Otherwise, maximum air temperatures were slightly below normal in general.

Minimum air temperatures suffered generally frequent slight to moderate variations below and above normal.

The highest and lowest maximum air temperatures reported were respectively 35.4°C at Aswan on the 25 th & 18.6°C at Sidi Barani on the 27 th.

The highest and lowest minimum air temperatures reported were respectively 20.9°C at Port Said on the 5 th and 4.7°C at Dakhla on the 17 th.

PRECIPITATION

Precipitation was confined to light rain in few days over scattered places in north.

Monthly rainfall amounts were markedly below normal in general.

The maximum daily rainfall reported was 6.3 mm at Ras El Hikma on the 14 th.

The maximum monthly rainfall reported was 9.6 mm. also at Ras El Hikma.

OTHER WEATHER PHENOMENA

Early morning mist developed during several days over scattered places in Delta, Cairo and Middle Egypt.

Chairman (A. F. HASAN)

Board of Directors

Cairo, March 1976

SURFACE DATA

**Table A 1.—MEAN VALUES OF THE ATMOSPHERIC PRESSURE, AIR TEMPERATURE,
RELATIVE HUMIDITY, BRIGHT SUNSHINE DURATION & PICHÉ EVAPORATION
NOVEMBER—1976**

STATION	Atmospheric Pressure mbo. M.S.L		Air Temperature °C								Relative Humidity %			Bright Sunshine			Piché Evaporation mm. Mean		
	Mean	D.F. Normal or Average	Maximum		Minimum		A+B 2	Dry Bulb		Wet Bulb		Mean	D.F. Normal or Average	Mean	D.F. Normal or Average	Total Actual	Total	%	
			(A) Mean	D.F. Normal or Average	(B) Mean	D.F. Normal or Average		Mesn	D.F. Normal or Average	Mean	D.F. Normal or Average								
Sallum	1018.5	+0.9	23.8	-0.6	14.7	-0.3	19.2	18.9	-0.4	14.1	-1.1	58	-2	—	—	—	—	7.6	
Mersa Matru (A)	1019.1	+1.3	22.5	-0.9	13.8	+0.4	18.2	18.0	-0.2	14.1	-0.7	66	-2	226.0	318.4	71	6.0		
Aleuandria (A)	1018.1	+1.7	24.2	-0.2	13.6	-1.0	18.9	18.6	-0.6	14.7	-1.4	64	-6	228.5	318.3	72	3.7		
Port Said . . . (A)	1017.8	+1.3	25.0	+1.1	17.2	-1.1	21.1	20.2	-0.6	16.5	-1.1	67	-4	234.6	318.3	75	4.0		
El Arish	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Chazza	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Tonta	1018.0	+0.8	24.9	-0.8	11.1	-1.1	18.0	17.0	-1.4	14.0	-1.2	73	+3	238.9	319.3	75	3.1		
Cairo . , , , , (A)	1018.2	+1.2	24.8	-0.4	13.5	-0.4	19.2	18.8	-0.5	14.3	-0.7	60	-1	—	—	—	—	8.3	
Fayoum	—	—	26.4	-0.1	12.3	-0.8	19.4	18.6	-0.9	14.5	-0.7	64	+3	—	324.0	81	4.3		
Menya , (A)	1018.4	+1.9	25.9	-0.8	10.4	-0.9	18.2	17.9	-0.5	13.7	-0.3	63	+3	261.2	—	6.5	—		
Assyout , (A)	1017.5	+1.3	25.5	-1.2	10.7	-2.2	18.1	17.7	-1.7	11.8	-1.8	49	0	—	—	—	9.4		
Luxor , (A)	1015.2	+0.6	29.4	-0.4	11.2	-1.1	20.3	19.9	0.0	13.7	-1.1	49	+2	—	—	—	5.8		
Aswan , (A)	1014.8	+0.6	29.4	-0.8	14.5	-1.0	22.0	21.3	-1.0	13.3	-0.3	36	+4	305.9	331.4	92	16.4		
Siwa	1019.1	+1.3	25.1	-1.1	9.9	-0.3	17.5	17.2	-0.8	12.0	-0.7	52	+1	267.5	322.1	83	7.7		
Bahariyar	1018.4	+1.3	25.6	-0.6	11.3	-0.1	18.4	18.1	-0.3	12.7	-0.7	52	+1	—	—	—	6.0		
Farafra	1019.7	+1.2	25.5	-0.5	10.5	-0.2	18.0	17.8	-0.5	11.9	-0.3	48	+4	—	—	—	7.4		
Dakhla	1018.3	+2.3	26.4	-1.2	9.5	-1.8	18.0	17.6	-1.4	10.8	-1.4	40	+1	281.0	328.5	85	12.0		
Kharga	1016.4	+1.2	27.8	-0.9	14.4	-1.4	21.2	20.8	0.0	12.9	-0.5	42	0	—	—	—	9.1		
Tor	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Hurghada	1015.4	+0.7	26.3	+0.3	16.1	+0.5	21.2	21.0	0.0	15.3	-0.5	52	-3	290.9	325.7	89	9.5		
Qusir	1015.3	+0.6	25.6	-1.3	18.5	-1.0	22.2	22.0	-1.0	16.7	-0.7	56	+2	—	—	—	8.2		

TABLE A2.— MAXIMUM AND MINIMUM AIR TEMPERATURE
NOVEMBER — 1975

Station	Maximum Temperature °C								Grass Min. Temp.		Minimum Temperature °C									
	Highest	Date	Lowest	Date	No. of Days with Max-Temp.						Mean	D. From Normal	Highest	Date	Lowest	Date	No. of Days with Min. Temp.			
					> 25	> 30	> 35	> 40	> 45	< 10						< 5	< 0	< -5		
Gallum	29.0	20	18.8	29	8	0	0	0	0	13.5	—	17.2	4	11.6	30	0	0	0	0	
Marsa Matruh . (A)	27.0	17	19.6	27	3	0	0	0	0	11.7	—	18.4	4	10.5	30	0	0	0	0	
Alexandria . . . (A)	27.6	17	20.4	27	8	0	0	0	0	11.0	—	18.5	10	9.6	16	13	0	0	0	
Port Said (A)	28.4	4	21.1	27	15	0	0	0	0	16.8	—	20.9	5	13.0	16	0	0	0	0	
El Arish	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Ghazza	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Tanta	28.2	21	21.7	28,29	16	0	0	0	0	—	—	16.0	24	7.4	21	4	0	0	0	
Cairo (A)	29.2	23	21.0	29	16	0	0	0	0	—	—	16.2	24	9.6	28	1	0	0	0	
Fayoum	29.7	8	23.2	28	23	0	0	0	0	9.0	—	16.0	25	8.4	21	5	0	0	0	
Minya (A)	33.6	24	21.5	27	17	1	0	0	0	8.2	—	15.4	10	6.4	28	12	0	0	0	
Asyout. (A)	34.0	24	21.0	27	15	2	0	0	0	8.5	—	15.2	25	7.2	29	12	0	0	0	
Luxor (A)	34.0	25	26.0	14,15	30	11	0	0	0	6.5	—	17.0	26	6.8	29	9	0	0	0	
Aswan (A)	35.4	25	25.0	15,28	28	9	1	0	0	—	—	19.4	26	11.2	17	0	0	0	0	
Siwa	29.2	23	21.7	26	18	0	0	0	0	7.3	—	14.5	21	5.8	27	13	0	0	0	
Bahariya	29.8	23	21.2	27	19	0	0	0	0	10.5	—	15.6	25	7.4	27	12	0	0	0	
Farafra	31.4	23	20.0	26	20	1	0	0	0	8.9	—	14.6	4	6.0	17	13	0	0	0	
Dakhla	33.6	23	22.4	27	19	2	0	0	0	9.5	—	15.3	10	4.7	17	16	1	0	0	
Kharga	35.8	24	22.8	27	24	4	1	0	0	11.4	—	18.8	25	8.2	21,30	3	0	0	0	
Tor	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Hurghada	28.5	5	23.0	27	24	0	0	0	0	—	—	18.6	5	13.1	29	0	0	0	0	
Quseir	28.5	21	23.0	28	22	0	0	0	0	17.1	—	20.6	20	16.8	24	0	0	0	0	

Table A 3.—SKY COVER AND RAINFALL

NOVEMBER — 1975

STATION	Mean Sky Cover (Oct.).					Rainfall mms.												
	00		06		12	18	Daily	Total	D. From	Max. Fall in one day		Number of Days with Amount of Rain						
	U.T.	U.T.	U.T.	U.T.	Mean			Amount	Normal	Amount	Date	<0.1	≥0.1	≥1.0	≥5.0	≥10	≥25	≥50
Saljum	4.4	2.8	3.3	3.1	3.4			0.6	—29.2	0.4	14	0	2	0	0	0	0	0
Mersa Matruh (A)	2.5	4.0	3.8	2.9	3.3			4.6	—19.6	2.5	29	3	3	2	0	0	0	0
Alexandria (A)	3.3	4.3	4.8	3.3	4.0			2.2	—31.6	1.8	24	0	3	1	0	0	0	0
Port Said (A)	2.3	2.9	3.1	2.0	2.4			2.7	— 6.4	1.0	10	0	5	1	0	0	0	0
El Arish	—	—	—	—	—			—	—	—	—	—	—	—	—	—	—	—
Ghazza	—	—	—	—	—			—	—	—	—	—	—	—	—	—	—	—
Tanta	0.8	2.1	3.7	1.0	2.0			0.1	— 3.9	0.1	25	0	1	0	0	0	0	0
Cairo (A)	1.1	2.2	3.8	1.6	2.2			0.0	— 3.2	0.0	—	0	0	0	0	0	0	0
Fayoum	—	1.4	2.5	1.1	—			0.0	— 0.5	0.0	—	0	0	0	0	0	0	0
Minya	0.5	1.6	2.5	1.3	1.5			0.0	— Ta.	0.0	—	0	0	0	0	0	0	0
Assyout (A)	0.6	1.1	1.5	0.6	1.1			0.0	— 0.0	0.0	—	0	0	0	0	0	0	0
Luxor (A)	0.5	1.2	1.6	1.5	1.1			0.0	— 0.1	0.0	—	0	0	0	0	0	0	0
Aswan (A)	0.1	1.0	1.5	0.7	0.8			0.0	— 0.1	0.0	—	0	0	0	0	0	0	0
Siwa	0.5	1.2	1.1	0.7	1.1			0.0	— 0.5	0.0	—	0	0	0	0	0	0	0
Bahariya	0.9	2.1	2.8	1.4	1.8		Trace	— 0.5	Tr.	—	1	0	0	0	0	0	0	0
Farafra	—	2.6	2.8	1.5	—			0.0	— 0.1	0.0	22	0	0	0	0	0	0	0
Dakhla	0.1	0.8	1.3	0.6	0.7			0.0	— Tr.	0.0	—	0	0	0	0	0	0	0
Kharga	0.7	1.3	1.3	0.7	0.9			0.0	— 0.1	0.0	—	0	0	0	0	0	0	0
Tor	—	—	—	—	—			—	—	—	—	—	—	—	—	—	—	—
Hurghada	1.1	1.6	1.8	1.0	1.5			0.0	— 0.4	0.0	—	0	0	0	0	0	0	0
Quseir	0.8	1.5	1.8	0.8	1.3			0.0	— 2.1	0.0	—	0	0	0	0	0	0	0

Table A 4. — DAYS OF OCCURRENCE OF MISCELLANEOUS WEATHER PHENOMENA.

NOVEMBER — 1975

Station	Precipitation				Frost	Thunderstorm	Mist Vis ≥ 1000 metres	Fog Vis <1000 Metres	Haze Vis At 1000 Metres	Thick Haze Vis <1000 Metres	Dust or Sandstorm Vis ≥ 1000 Metres	Dust or Sandstorm Vis <1000 Metres	Gale	Clear Sky	Cloudy Sky	
	Rain	Snow	Ice, Pellets	Hail												
Sallum	2	0	0	0	0	0	0	0	0	0	0	0	0	0	7	1
Mersa Matruh (A)	3	0	0	0	0	0	0	0	0	0	0	0	0	0	6	1
Alexandria (A)	3	0	0	0	0	0	0	0	0	0	0	0	0	0	5	4
Port Said (A)	5	0	0	0	0	—	—	—	—	—	—	—	0	0	13	1
El Arish	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Ghazza	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tanta	1	0	0	0	0	0	0	5	0	0	0	0	0	0	20	1
Cairo (A)	0	0	0	0	0	0	0	8	1	9	0	2	0	0	13	0
Fayoum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	—	—
Minya (A)	0	0	0	0	0	0	0	21	0	4	0	1	0	0	18	0
Assyout (A)	0	0	0	0	0	0	0	1	0	0	0	2	0	0	23	0
Luxor (A)	0	0	0	0	0	0	0	0	0	8	0	1	0	0	22	0
Aswan (A)	0	0	0	0	0	0	0	0	0	0	0	1	0	0	24	0
Siwa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21	0
Bahariya	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16	0
Farafra	0	0	0	0	0	0	0	0	0	0	0	0	0	0	—	—
Dakhla	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	0
Kharga	0	0	0	0	0	0	0	0	0	0	0	2	0	0	24	0
Tor	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hurghada	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22	2
Quseir	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22	0

Table A 5.—NUMBER IN HOURS OF OCCURRENCES OF CONCURRENT SURFACE WIND SPEED AND DIRECTION RECORDED WITHIN SPECIFIED RANGES

NOVEMBER — 1975

Station	Calm (hours)	Variable (hours)	Unrecorded (hours)	Wind speed in knots	Number in hours of occurrences of wind blowing from the ranges of directions indicated													All directions
					345 / 014	015 / 044	045 / 074	075 / 104	105 / 134	135 / 164	165 / 194	195 / 224	225 / 254	255 / 284	285 / 314	315 / 344		
Sallum	3	4	0	1—10	21	31	54	26	23	34	26	18	13	50	103	124	523	
				11—27	0	0	0	2	1	6	7	11	19	75	55	14	190	
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0	
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0	
				All speeds	21	31	54	28	24	40	33	29	32	125	158	138	713	
Mersa Matruh . . (A)	3	0	0	1—10	63	50	27	14	28	30	38	48	78	44	30	53	503	
				11—27	7	2	0	10	4	16	14	30	43	18	35	35	214	
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0	
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0	
				All speeds	70	52	27	24	32	46	52	78	121	62	65	88	717	
Alexandria . . . (A)	6	0	4	1—10	132	99	36	23	24	22	53	39	14	28	41	64	575	
				11—27	3	12	2	1	0	0	1	4	10	13	19	70	135	
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0	
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0	
				All speeds	135	111	38	24	24	22	54	43	24	41	60	134	710	
Tanta	58	0	3	1—10	93	109	54	22	5	9	18	24	75	59	101	60	629	
				11—27	4	1	8	3	1	0	0	0	0	3	1	9	30	
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0	
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0	
				All speeds	97	110	62	25	6	9	18	24	75	62	102	69	659	
Caere (A)	74	0	4	1—10	49	81	73	45	28	7	22	21	32	53	69	50	520	
				11—27	28	46	8	6	0	1	9	6	0	9	9	1	122	
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0	
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0	
				All speeds	77	127	81	51	28	8	30	27	32	62	68	51	642	
Fayoum	8	3	6	—10	203	252	17	12	6	16	14	31	26	19	13	66	675	
				11—27	0	23	5	0	0	0	0	0	0	0	0	0	28	
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0	
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0	
				All speeds	203	275	22	12	6	16	14	31	26	19	13	66	703	
Minya (A)	22	1	0	1—10	305	70	1	2	0	15	20	6	1	3	13	75	511	
				11—27	113	70	0	0	0	0	0	0	0	0	0	3	186	
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0	
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0	
				All speeds	418	140	1	2	0	15	20	6	1	3	13	76	697	
Assyout (A)	31	0	1	1—10	135	40	2	3	4	5	18	16	15	21	71	156	495	
				11—27	99	57	0	0	0	0	0	0	0	0	0	37	193	
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0	
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0	
				All speeds	234	97	2	3	4	5	18	16	15	21	71	202	688	

Table A 5.—NUMBER IN HOURS OF OCCURRENCES OF CONCURRENT SURFACE WIND SPEED AND DIRECTION RECORDED WITHIN SPECIFIED RANGES NOVEMBER—1975

Station	Calm (hours)	Variable (hours)	Unrecorded (hours)	Wind speed in knots	Number in hours of occurrences of wind blowing from the ranges of directions indicated													
					345 014	015 044	045 074	075 104	105 134	135 164	165 194	195 224	225 254	255 314	285 314	315 344	All direction	
					1	0	0	0	0	0	0	0	0	0	0	0	0	
Luxor	166	0	1	1—10	95	58	34	22	13	15	81	60	31	40	54	49	552	
				11—27	0	0	0	0	0	0	0	0	0	0	0	1	1	
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0	
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0	
				All speeds	95	58	34	22	13	15	81	60	31	40	45	50	553	
Aswan	0	0	0	1—10	305	118	11	2	0	1	0	0	0	1	5	90	533	
				11—27	137	27	0	0	0	0	0	0	0	0	0	0	23	187
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0	
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0	
				All speeds	442	145	11	2	0	1	0	0	0	1	5	113	720	
Siwa	68	31	2	1—10	40	39	37	58	68	47	19	16	44	76	86	67	597	
				11—27	2	5	0	0	1	3	0	0	2	0	5	4	22	
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0	
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0	
				All speeds	24	44	37	58	69	50	19	16	46	76	91	71	619	
Dakhla	1	1	0	1—10	111	44	34	14	11	11	22	32	43	67	124	164	667	
				11—27	30	13	0	0	0	0	0	0	0	0	0	8	51	
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0	
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0	
				All speeds	141	57	34	14	11	11	22	32	43	67	124	162	718	
Kahrga	4	4	0	1—10	268	81	32	14	2	6	8	5	1	16	11	39	483	
				11—27	208	20	0	0	0	0	0	0	0	0	0	1	229	
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0	
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0	
				All speeds	416	101	32	14	2	6	8	5	1	16	11	40	712	
Hurghada	2	0	0	1—10	42	18	5	4	6	6	5	4	8	35	154	65	352	
				11—27	67	1	0	0	0	0	0	0	0	0	23	116	159	
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0	
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0	
				All speeds	109	19	5	4	6	6	5	4	8	58	224	224	718	
Quseir	3	1	0	1—10	56	13	3	7	2	0	2	4	11	100	161	23	382	
				11—27	124	3	0	0	0	0	0	0	0	0	35	173	334	
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0	
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0	
				All speeds	180	16	3	7	2	0	2	4	11	100	190	195	716	

UPPER AIR CLIMATOLOGICAL DATA

TABLE B 1—MONTHLY MEANS AND MONTHLY ABSOLUTE HIGHER & LOWER
VALUES OF ALTITUDE, AIR TEMPERATURE & DEW POINT AT
STANDARD AND SELECTED PRESSURE SURFACES

NOVEMBER—1975

Station	Pressure Surface (Millibar)	Altitude of Pressure Surface (gpm)				Temperature (°C)				Dew Point (°C)	
		N	Mean	Highest	Lowest	N	Mean	Highest	Lowest	N	Mean
Makruh 0000 U.T.	Surface	29	1016m.b.	1020m.b.	1009m.b.	29	17.0	29.2	13.5	29	9.8
	1000	29	162	197	106	29	16.9	21.5	12.2	28	10.2
	850	29	1529	1590	1485	29	8.7	17.4	2.4	27	0.6
	700	29	3117	3209	3050	29	0.7	5.4	—4.8	27	-13.7
	600	29	4336	4437	4254	29	—7.1	—2.0	—12.1	27	-21.3
	500	29	5732	5828	5631	29	—16.4	—11.9	—21.1	27	-30.0
	400	29	7352	7481	7259	29	—28.2	—24.3	—36.1	27	-42.1
	300	29	9375	9509	9246	29	—48.0	—38.6	—49.1	27	-54.8
	250	29	10582	10734	10450	29	—51.0	—46.1	—59.3	26	-61.7
	200	29	12009	12177	11866	29	—57.7	—52.8	—63.5	15	-66.9
	150	25	13798	13969	13643	25	—61.5	—58.6	—64.9	1	-72.4
	100	13	16274	16419	16128	13	—67.3	—62.3	—70.5	—	—
	70	6	18445	18529	18315	6	—65.2	—61.7	—68.7	1	—
	60	4	19332	19500	19040	4	—63.3	—62.1	—64.6	1	—
	50	4	20550	20671	20369	4	—61.2	—59.5	—64.6	1	—
	40	3	22020	22100	21860	3	—60.3	—57.5	—64.6	1	—
	30	3	23717	23839	23499	3	—57.4	—55.2	—60.9	1	—
	20	2	26444	26457	26431	2	—50.6	—50.1	—51.1	1	—
	10	—	—	—	—	—	—	—	—	—	—
Helwan 0000 U.T.	Surface	30	* 1002m.b.	* 1007m.b.	* 998m.b.	30	16.0	21.2	12.0	30	10.5
	1000	30	156	193	116	24	15.9	18.4	12.2	24	10.3
	850	30	1528	1580	1490	29	9.8	14.2	4.4	29	1.8
	700	30	3123	3166	3085	29	3.0	6.9	—2.1	29	-14.2
	600	29	4356	4408	4299	29	—4.4	—0.5	—7.5	29	-20.5
	500	29	5766	5834	5699	29	—13.5	—9.6	—16.8	29	-28.1
	400	29	7429	7509	7337	29	—25.0	—21.8	—28.7	29	-36.3
	300	28	9459	9560	93.0	28	—39.6	—35.9	—44.9	28	-49.9
	250	25	10685	10794	10542	25	—48.4	—45.0	—51.7	25	-58.3
	200	25	12134	12244	11972	21	—54.9	—52.2	—61.1	18	-65.5
	150	11	13940	14013	13784	11	—62.4	—58.9	—65.9	2	-71.1
	100	1	16341	—	—	1	—63.8	—	—	—	—
	70	—	—	—	—	—	—	—	—	—	—
	60	—	—	—	—	—	—	—	—	—	—
	50	—	—	—	—	—	—	—	—	—	—
	40	—	—	—	—	—	—	—	—	—	—
	30	—	—	—	—	—	—	—	—	—	—
	20	—	—	—	—	—	—	—	—	—	—
	10	—	—	—	—	—	—	—	—	—	—
Aswan 0000 U.T.	Surface	27	* 993m.b.	* 997m.b.	* 990m.b.	27	17.0	23.6	12.6	27	3.4
	1000	27	135	168	107	—	15.9	—	—	—	—
	850	27	1527	1565	1501	27	8.2	20.4	12.2	27	0.2
	700	26	3154	3196	3126	26	0.7	12.8	5.4	26	-11.7
	600	26	4411	4451	4376	26	—8.8	4.4	—2.2	26	-17.0
	500	26	5850	5892	5799	26	—22.0	—5.3	—13.4	26	-23.8
	400	26	7537	7606	7461	23	—37.4	—17.4	—33.2	26	-31.3
	30	23	9587	9663	9484	23	—47.2	—34.1	—40.9	23	-37.2
	250	16	10813	10913	10697	16	—44.5	—43.6	—50.9	16	-56.0
	200	12	12244	12364	12113	12	—58.3	—54.1	—61.8	9	-65.3
	150	4	13992	14064	13857	4	—67.5	—44.4	—69.5	—	—
	100	2	16327	16397	16257	2	—74.0	—73.5	—74.5	—	—
	70	1	18505	—	—	1	—68.1	—	—	—	—
	60	—	—	—	—	—	—	—	—	—	—
	50	—	—	—	—	—	—	—	—	—	—
	40	—	—	—	—	—	—	—	—	—	—
	30	—	—	—	—	—	—	—	—	—	—
	20	—	—	—	—	—	—	—	—	—	—
	10	—	—	—	—	—	—	—	—	—	—

N = The number of cases the element has been observed during the month.

* The atmospheric pressure corrected to the elevation of the radiosonde station.

UPPER AIR CLIMATOLOGICAL DATA

Table B 1.—MONTHLY MEANS AND MONTHLY ABSOLUTE HIGHER & LOWER
VALUES OF ALTITUDE, AIR TEMPERATURE & DEW POINT AT
STANDARD AND SELECTED PRESSURE SURFACES
NOVEMBER—1975

Station	Pressure Surface (Millibar)	Altitude of Pressure Surface (gpm.)				Temperature (°C)				Dew Point (°C)	
		N	Mean	Highest	Lowest	N	Mean	Highest	Lowest	N	Mean
Morsa Matruh (A) 1200 U.T.	Surface	30	1015mb.	1020mb.	1010mb.	30	21.8	26.0	17.8	30	11.8
	1000	30	159	202	114	30	20.5	26.4	18.6	30	10.8
	850	30	1530	1583	1493	30	9.5	18.1	— 3.4	30	— 2.0
	700	30	3123	3219	3079	30	1.7	5.7	— 4.5	30	— 14.2
	600	30	4350	4429	4286	30	— 5.8	— 1.0	— 10.7	30	— 21.5
	500	30	5754	5843	5693	30	— 14.9	— 9.7	— 18.2	30	— 30.2
	400	30	7406	7520	7306	30	— 26.0	— 17.2	— 30.3	30	— 40.7
	300	29	9426	9591	9286	29	— 10.7	— 36.1	— 46.1	29	— 54.3
	250	29	10643	10821	10475	29	— 49.2	— 42.0	— 55.4	28	— 61.0
	200	29	12082	12252	11876	29	— 56.5	— 49.7	— 61.0	26	— 67.3
	150	28	13886	14113	13662	28	— 61.2	— 54.3	— 65.1	5	— 70.8
	100	23	16377	16687	16162	23	— 64.8	— 59.9	— 70.1	—	—
	70	10	18624	18912	18523	10	— 63.2	— 57.0	— 66.1	—	—
	60	5	19608	19650	19550	5	— 61.0	— 59.2	— 62.7	—	—
	50	5	20693	20770	20630	5	— 57.6	— 55.7	— 60.3	—	—
	40	2	22175	22200	22150	2	— 53.7	— 51.5	— 55.9	—	—
	30	2	23956	24077	23894	2	— 49.1	— 46.5	— 51.7	—	—
	20	2	26656	26752	26559	2	— 43.2	— 40.0	— 46.3	—	—
	10	—	—	—	—	—	—	—	—	—	—
Helwan (A) 1200 U.T.	Surface	30	1001mb.	1006 mb.	996mb.	30	23.6	26.8	20.0	30	9.2
	1000	30	146	188	101	19	22.5	26.2	19.4	18	9.9
	850	30	1532	1585	1488	29	11.1	17.7	5.8	28	0.6
	700	30	3133	3200	3079	30	4.1	8.7	— 1.8	30	— 13.4
	600	29	4372	4437	4306	28	— 3.4	0.6	— 7.0	28	— 18.7
	500	29	5793	5847	5702	29	— 11.9	— 7.3	— 16.3	29	— 26.0
	400	29	7468	7554	7344	29	— 22.2	— 17.3	— 27.0	29	— 35.1
	300	29	9525	9631	9359	29	— 36.6	— 32.4	— 42.0	29	— 47.8
	250	23	10761	10900	10580	23	— 45.0	— 40.0	— 49.9	22	— 56.1
	200	21	12217	12364	12015	18	— 52.7	— 49.1	— 57.1	18	— 62.5
	150	18	14040	14211	13818	18	— 58.4	— 55.1	— 65.0	14	— 66.5
	100	12	16540	16726	16313	12	— 63.5	— 58.0	— 68.7	—	—
	70	3	18808	18926	18708	3	— 61.0	— 58.6	— 64.4	—	—
	60	—	—	—	—	—	—	—	—	—	—
	50	—	—	—	—	—	—	—	—	—	—
	40	—	—	—	—	—	—	—	—	—	—
	30	—	—	—	—	—	—	—	—	—	—
	20	—	—	—	—	—	—	—	—	—	—
	10	—	—	—	—	—	—	—	—	—	—
Aewan (A) 1200 U.T.	Surface	28	* 992mb.	* 996mb.	* 989mb.	28	29.3	34.8	24.6	28	6.9
	1000	28	121	158	94	—	—	—	—	—	—
	850	28	1535	1576	1509	28	17.9	22.6	13.8	28	— 4.6
	700	28	3173	3224	3131	28	9.4	13.5	6.1	28	— 13.8
	600	28	4434	4485	4384	28	1.8	5.8	— 1.7	28	— 20.3
	500	26	5878	5930	5823	26	— 7.6	— 3.2	— 11.5	26	— 27.3
	400	26	7574	7644	7501	26	— 20.1	— 17.2	— 23.6	26	— 37.2
	300	25	9642	9739	9541	25	— 35.6	— 31.6	— 40.3	35	— 50.0
	250	23	10894	11006	10771	23	— 44.9	— 40.6	— 49.0	21	— 71.7
	200	12	12352	12484	12262	12	— 55.5	— 51.6	— 58.0	12	— 67.3
	150	4	14116	14229	14040	4	— 60.5	— 53.7	— 67.6	1	— 71.8
	100	—	—	—	—	—	—	—	—	—	—
	70	—	—	—	—	—	—	—	—	—	—
	60	—	—	—	—	—	—	—	—	—	—
	50	—	—	—	—	—	—	—	—	—	—
	40	—	—	—	—	—	—	—	—	—	—
	30	—	—	—	—	—	—	—	—	—	—
	20	—	—	—	—	—	—	—	—	—	—
	10	—	—	—	—	—	—	—	—	—	—

N = The number of case the element has been observed during the month.

* The atmospheric pressure corrected to the elevation of the radiosonde station.

Table B 2.—MEAN AND EXTREME VALUES OF THE FREEZING LEVEL AND THE TROPOPAUSE.
THE HIGHEST WIND SPEED IN THE UPPER AIR

NOVEMBER — 1975

Station	Freezing level									First tropopause									Highest wind spee			
	Mean			Highest			Lowest			Mean			Highest			Lowest			Altitude (gpm)	Pressure (mb.)	Direction (000—300)°	Speed in knots
	Altitude (gpm)	Pressure (mb.)	Dew point (°C)	Altitude (gpm)	Pressure (mb.)	Dew point (°C)	Altitude (gpm)	Pressure (mb.)	Dew point (°C)	Altitude (gpm)	Pressure (mb.)	Temperature (°C)	Altitude (gpm)	Pressure (mb.)	Temperature (°C)	Altitude (gpm)	Pressure (mb.)	Temperature (°C)	Altitude (gpm)	Pressure (mb.)	Direction (000—300)°	Speed in knots
Mersa Matruh (A)	(N)	(N)	(N)							(N)	(N)	(N)										
Mersa Matruh (A)	3143 (29)	699 (29)	-12.0 (27)	3980	632	-21.5	1926	810	-4.8	13575 (11)	162 (11)	-63.3 (11)	16200	102	63.0	10740	234	-57.3	2360	742	235	72
Helwan	3555 (28)	665 (28)	-15.8 (28)	4290	608	-30.4	2360	765	-0.4	—	—	—	—	—	—	—	—	—	11530	219	325	167
Aswan	4516 (29)	592 (29)	-17.7 (28)	5150	554	-27.9	4000	622	-10.4	—	—	—	—	—	—	—	—	—	1800	819	045	30
Mersa Matruh (A)	3340 (30)	669 (30)	-14.2 (30)	4250	610	-3.8	2040	800	-5.4	13'00 (21)	169 (21)	-53.4 (21)	16770	96	-68.0	10970	239	-54.6	15100	126	240	210
Helwa	3795 (29)	649 (29)	-15.1 (28)	4350	590	-13.5	2600	744	0.0	13803 (9)	158 (9)	-58.4 (9)	15670	123	-57.4	15600	186	-60.0	16010	97	150	150
Aswan	4718 (28)	581 (28)	-21.6 (28)	5420	533	-21.4	4100	622	-22.1	—	—	—	—	—	—	—	—	—	9420	310	300	110

N = The number of cases the element has been observed during the month.

Table B 3.—(contd.) NUMBER OF OCCURRENCES OF WIND DIRECTION WITHIN SPECIFIED RANGES AND THE MEAN SCALAR WIND SPEED AT THE STANDARD AND SELECTED PRESSURE SURFACES
MERSA MATRUH — NOVEMBER 1975

Time	Pressure Surface (Millibar.)	Wind between ranges of direction (000—360°)														Number of Calm winds	Total Number of Observations (T.N.)	Mean Scalar wind Speed (Knots)										
		345		015		045		075		105		135		165		195		225		255		285		315				
		N	(ft)	N	(ft)	N	(ft)	N	(ft)	N	(ft)	N	(ft)	N	(ft)	N	(ft)	N	(ft)	N	(ft)	N	(ft)					
0000 T.U.	Surface	1	12	3	5	1	5	1	8	2	11	2	4	3	13	5	7	5	9	2	6	1	8	3	10	0	29	8
	1000	0	—	1	20	1	8	1	19	4	10	1	15	1	16	1	12	4	14	0	—	2	16	2	13	0	18	13
	850	0	—	1	11	0	—	1	15	2	10	4	15	0	—	0	—	3	25	1	12	4	20	1	14	0	17	17
	700	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	600	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	500	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	400	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	300	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	250	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	200	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	150	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	100	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	70	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	60	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	50	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	40	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	30	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
1200 T.U.	Surface	6	10	2	10	1	6	2	12	0	—	2	12	2	11	1	16	0	—	3	17	5	17	6	11	0	30	12
	1000	4	13	0	—	1	17	0	—	1	19	0	—	3	29	1	18	3	23	2	34	4	21	4	12	0	23	20
	850	0	—	0	—	0	—	1	28	2	10	1	9	2	11	1	23	3	17	4	20	5	22	3	8	0	22	16
	700	0	—	0	—	0	—	0	—	1	16	1	12	1	11	1	9	7	34	4	34	4	32	2	20	0	21	28
	600	0	—	0	—	0	—	0	—	0	—	0	—	0	—	2	16	8	42	3	43	3	23	0	—	0	16	36
	500	1	36	0	—	0	—	0	—	0	—	0	—	0	—	1	70	6	64	4	41	1	14	0	—	0	13	51
	400	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	6	80	5	42	0	—	0	—	0	11	63
	300	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	5	83	2	81	0	—	0	—	0	7	83
	250	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	6	99	0	—	0	—	0	—	0	6	99
	200	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	3	95	2	51	0	—	0	—	0	5	77
	150	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	4	82	0	—	0	—	0	—	0	4	82
	100	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	47	0	—	0	—	0	—	0	1	47
	70	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	27	0	—	0	—	0	—	0	1	27
	60	—	—	0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	50	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	40	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	30	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	

N = The number of cases the element has been observed during the month.

TN = The total number of cases the wind has been observed for all directions during the month.

Table B 3. (contd.)— OF OCCURRENCES OF WIND DIRECTION WITHIN SPECIFIED RANGES AND THE MEAN SCALAR WIND SPEED AT THE STANDARD AND SELECTED PRESSURE SURFACES

HELWAN — NOVEMBER 1975

Time	Pressure Surface (Millibar)	Wind between specified ranges of direction (000—360)°														Number of Calm winds	Total Number of Observations (TN)	Mean Scalar wind Speed (Knots)								
		345		015		045		075		105		135		165		195		225		255		285				
		N 014	(ff) 044	N 044	(ff) 074	N 104	(ff) 134	N 164	(ff) 194	N 224	(ff) 254	N 284	(ff) 314	N 344	(ff) 014	N 044	(ff) 074	N 104	(ff) 134	N 164	(ff) 194	N 224	(ff) 254	N 284	(ff) 314	
0000 U.T.	Surface	4	07	15	10	3	1	4	14	0	—	0	—	0	—	0	—	0	—	0	—	4	05	0	30	8
	1000	2	08	12	12	6	11	2	04	0	—	0	—	0	—	0	—	0	—	0	—	2	06	0	24	10
	850	6	16	6	15	5	13	6	13	0	—	0	—	0	—	0	—	3	14	3	10	1	16	0	30	14
	700	7	18	4	21	0	—	0	—	0	—	0	—	0	—	2	23	4	28	5	24	8	18	0	30	21
	600	0	—	1	19	1	10	0	—	0	—	0	—	0	—	8	37	9	30	10	22	0	29	29		
	500	1	23	0	—	1	14	0	—	0	—	0	—	0	—	4	46	18	41	4	29	0	28	28		
	400	0	—	0	—	0	—	1	20	0	—	0	—	0	—	4	60	18	63	3	33	0	26	58		
	300	0	—	0	—	0	—	0	—	0	—	0	—	0	—	2	99	12	86	2	48	0	16	83		
	250	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	95	6	88	3	90	0	10	90		
	200	0	—	0	—	0	—	1	—	0	—	0	—	0	—	0	—	2	97	1	110	0	0	0	3	101
	150	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	76	0	—	0	0	1	76	
	100	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	70	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	60	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	50	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	40	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	30	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
1200 U.T.	Surface	5	9	9	13	1	13	0	—	0	—	0	—	1	3	2	8	0	7	7	10	0	30	10		
	1000	6	10	5	13	1	14	0	—	0	—	0	—	0	—	1	4	0	—	6	10	0	19	11		
	850	4	11	3	15	8	13	6	11	1	21	0	—	0	—	0	—	2	28	3	15	2	16	0	30	14
	700	7	20	0	—	2	14	0	—	0	—	0	—	0	—	0	—	3	27	14	22	4	14	0	30	21
	600	3	30	1	16	0	—	0	—	0	—	0	—	0	—	0	—	11	33	7	32	7	25	0	29	30
	500	0	—	1	14	0	—	0	—	0	—	0	—	0	—	0	—	7	51	13	41	8	29	0	29	40
	400	0	—	1	13	0	—	0	—	0	—	0	—	0	—	0	—	5	57	14	63	4	53	0	24	58
	300	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	2	96	13	79	3	74	0	18	80
	250	1	43	0	—	0	—	0	—	0	—	0	—	0	—	0	—	2	58	6	99	2	78	0	11	83
	200	0	—	1	57	0	—	0	—	0	—	0	—	0	—	0	—	1	62	3	100	0	—	0	5	84
	150	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	69	0	1	89
	100	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	122	0	1	122
	70	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	60	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	50	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	40	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	30	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	

N = The number of cases the wind has been observed from the range of direction during the month.

=The total number of cases the wind has been observed for all directions during the month.

Table B 3. NUMBER OF OCCURRENCES OF WIND DIRECTION WITHIN SPECIFIED RANGES AND THE MEAN SCALAR SCALAR WIND SPEED AT THE STANDARD AND SELECTED PRESSURE SURFACES

ASWAN — NOVEMBER 1975

Time	Pressure Surface Millibar	Wind between specified ranges of direction (000—360) ^o												Number of calm winds	Total number of observations (TN)	Mean scalar wind speed (knots)											
		345		015		045		075		105		135		165		195		225		255							
		N	(ff)	N	(ff)	N	(ff)	N	(ff)	N	(ff)	N	(ff)	N	(ff)	N	(ff)	N	(ff)	N	(ff)	N	(ff)	N	(ff)		
000 U.T.	Surface	16	10	7	11	0	—	1	03	0	—	0	—	0	—	0	—	0	—	0	—	3	11	0	27	10	
000 U.T.	1000	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
000 U.T.	850	4	11	8	10	4	09	0	—	2	06	0	—	0	—	0	—	3	17	2	08	4	19	0	27	12	
000 U.T.	700	0	—	1	15	0	—	0	—	0	—	0	—	0	—	0	—	1	12	0	—	0	—	0	2	14	
000 U.T.	600	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
000 U.T.	500	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
000 U.T.	400	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
000 U.T.	300	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
000 U.T.	250	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
000 U.T.	200	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
000 U.T.	150	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
000 U.T.	100	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
000 U.T.	70	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
000 U.T.	60	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
000 U.T.	50	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
000 U.T.	40	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
000 U.T.	30	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
000 U.T.	20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
000 U.T.	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
1200 U.T.	Surface	21	10	2	7	0	—	1	5	0	—	0	—	0	—	0	—	0	—	1	0	2	7	1	28	9	
1200 U.T.	1000	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
1200 U.T.	850	3	19	3	7	5	12	1	5	1	5	2	9	3	8	1	6	1	8	0	—	2	7	6	14	0	
1200 U.T.	700	1	20	5	9	1	4	0	—	0	—	0	—	1	11	0	—	6	22	6	15	3	15	5	28	15	
1200 U.T.	600	1	10	0	—	0	—	0	—	1	4	0	—	2	9	0	—	5	18	10	22	6	20	3	16	0	
1200 U.T.	500	0	—	0	—	0	—	0	—	0	—	0	—	0	—	2	18	2	21	12	32	9	34	1	23	0	
1200 U.T.	400	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	19	6	35	13	40	6	48	0	—	0	
1200 U.T.	300	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	6	43	8	42	7	63	1	54	0	
1200 U.T.	250	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	2	53	3	46	6	58	0	—	0	
1200 U.T.	200	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	2	62	1	50	0	—	0	3	58	
1200 U.T.	150	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	63	0	0	0	0	63	
1200 U.T.	100	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
1200 U.T.	70	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
1200 U.T.	60	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
1200 U.T.	50	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
1200 U.T.	40	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
1200 U.T.	30	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
1200 U.T.	20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
1200 U.T.	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		

N = The number of cases the wind has been observed from the range of direction during the month.

TN = The total number of cases the wind has been observed for all directions during the month.

MONTHLY REVIEW OF AGRO-METEOROLOGICAL STATIONS

MERSA MATRUH—NOVEMBER 1975

The mean daily air temperature and relative humidity were rather normal. The total monthly rainfall was only 4.6 mm. against 24.2 mm. for normal.

The daily maximum air temperatures were slightly below normal in general, apart from a warm spell in the period (16th—20th) which yielded the highest maximum air temperature (27.0°C) on the 17th.

The highest maximum soil temperatures were lower than November 1974 at all depths with departures between 1.1°C & 0.6°C . The lowest minimum soil temperatures were lower than November 1974 at all depths except those at 20 & 100 cm. depths which were higher; the departures ranged between 0.9°C & 0.2°C .

The mean daily actual sunshine duration was lower than normal by 0.8 hour. The mean daily wind speed at 1.5 met. height was slightly higher than the corresponding value of November 1974.

TAHRIR—NOVEMBER 1975

The mean daily air temperature and relative humidity were below average. No rain was reported except 0.1 mm; on both the 23rd & 25th, while the average monthly rainfall is 3.9 mm.

Weather during the month was generally mild, intervened by a warm period from the 17th till the 24th during which the highest maximum air temperature (29.5°C) was reported.

The highest maximum soil temperatures were lower than average at all depths except at 100 cm. where its value was the same as average; the departures varied between 1.6°C (at 5 cm.) and 0.1°C (at 50 cm.). The lowest minimum soil temperature was the same as average at 2cm., lower at 5 & 10 cm. depths by 0.1° & 0.2°C , and higher than average at deeper depths with departures between 1.8°C (at 20 cm.) and 0.6°C (at 100 cm.).

The mean daily actual sunshine duration, wind speed at 1.5 met. height and pan evaporation were lower than average by 0.7 hour, 0.2 m./sec. and 0.65 mm. respectively.

BAHTIM—NOVEMBER 1975

The mean daily air temperature and relative humidity were nearly the same as average. No rain was reported except trace on both the 21st and 25th, while the average monthly rainfall is 3.4mm.

Weather during the month was generally mild, intervened by a warm wave in the period (16—24) which yielded the highest maximum air temperature (28.4°C) on the 23rd.

The highest maximum soil temperatures were higher than average at all depths except at 20cm. where its value was slightly lower (by 0.1°C); the departures varied between 2.0°C (at 2 cm.) and 0.2°C (at 50 cm.). The lowest minimum soil temperatures were higher than average at all depths with departures between 1.4°C (at 2 cm.) and 0.3°C (at 10 cm.).

The mean daily actual sunshine duration, wind speed at 1.5 met. height and pan evaporation were nearly the same as average.

KHARGA — NOVEMBER 1975

The mean daily air temperature and relative humidity were rather normal.

Weather during the month was generally mild with subnormal maximum air temperatures. The month was intervened by two short warm spells, the first on the 8th and the second in the period (23 rd — 25th) yielding the highest maximum air temperature (35.8°C) on the 24 th.

The highest maximum soil temperatures were higher than average at 2,5 & 10 cm. depths with departures between 4.3° & 2.7°C ; and lower than average at 20,50 & 100 cm. depths with slight departure between 0.6° & 0.1°C . The lowest minimum soil temperatures were higher than average at 2, 5, 50 & 100 cm. depths with departures between 2.3°C (at 2 cm.) & 0.3°C (at 100 cm.). At 10 cm. depth the lowest minimum soil temperature was slightly lower (by 0.1°C) and at 20 cm. it was the same as average.

The mean daily actual sunshine duration, wind speed at 1.5 met. height and pan evaporation were lower than average by 0.8 hour, 0.2 m./sec. and 0.34 mm. respectively.

**Table C 1.—AIR TEMPERATURE AT 1½ METRES ABOVE GROUND
NOVEMBER— 1975**

STATION	Air Temperature (°C)					Mean Duration in hours of daily air temperature above the following values.										
	Mean Max.	Mean Min.	Mean of the day	Night time mean	Day time mean	-5°C	0°C	5°C	10°C	15°C	20°C	25°C	30°C	35°C	40°C	45°C
M Matruh.....	22.5	13.8	18.0	16.2	19.9	24.0	24.0	24.0	24.0	18.8	7.1	0.4	0.0	0.0	0.0	0.0
Tahrir.....	26.5	10.3	17.1	13.4	20.9	24.0	24.0	24.0	22.4	14.0	8.0	1.3	0.0	0.0	0.0	0.0
Bahim	24.4	9.7	16.7	13.1	20.3	24.0	24.0	24.0	22.2	12.9	7.1	0.9	0.0	0.0	0.0	0.0
Kharga	27.8	14.4	21.0	18.4	23.5	24.0	24.0	24.0	23.8	21.8	13.3	4.7	0.4	0.03	0.0	0.0

**Table C 2.— EXTREME VALUES OF AIR TEMPERATURE AT 1½ METRES ABOVE GROUND,
ABSOLUTE MINIMUM AIR TEMPERATURE AT 5cms ABOVE GROUND OVER
DIFFERENT FIELDS.**

NOVEMBER— 1975

STATION	Max. Temp. at 1½ metres (°C)				Min Temp. at 1½ metres. (°C)				Min. Temp. at 5 cms. above (°C)			
	Highest		Lowest		Highest		Lowest		Dry soil		Grass	
	Value	Date	Value	Date	Value	Date	Value	Date	Value	Date	Value	Date
M. Matruh.....	27.0	17	19.6	27	18.4	4	10.5	30	8.0	18.23	—	—
Tahrir	29.5	20	21.7	29	15.7	24	6.7	17	4.6	21	3.9	21
Bahim	28.4	23	19.8	29	12.8	25	6.2	28	2.0	21	3.5	28
Kharga	35.8	24	22.8	27	18.8	25	8.2	30	6.2	30	—	—

Table C 3.— (SOLAR+SKY) RADIATION, DURATION OF BRIGHT SUNSHINE, RELATIV HUMIDITY, VAPOUR PRESSURE AT 1½ METRES ABOVE GROUND, EVAPORATION & RAINFALL.

NOVEMBER— 1975

STATION	(Solar+Sky) Radia-tion gm. cal/cm²	Duration of Bright Sunshine (hours)			Relative Humidity. %			Vapour pressure (mms)						Evapo-ration (mmns)	Rainfall (mmns)					
		Total Actual monthly	Total Possible monthly	%	Mean of day	1200 U.T.	Lowest	Date	Mean of day	1200 UT	Highest	Date	Lowest	Date	Piche	Pan class (A)	Total Amount Monthly	Max. Fall in one day	Date	
M Matruh...	220.4	226.0	317.4	71	66	56	32	16	10.3	10.9	14.3	19	5.3	23	6.0	—	4.6	2.5	29	
Tahrir.....	309.3	228.0	319.2	71	71	45	20	21	10.1	10.0	13.9	9	5.8	17	3.5	4.07	0.2	0.1	23,25	
Bahim	325.6	243.8	320.1	71	46	27	24	24	9.8	9.9	12.9	5	9.20	6.3	28	4.3	4.30	Tr	Tr	21,25
Kharga	437.1	281.0	328.5	85	41	29	17	18	7.4	7.5	11.1	23	4.5	18.19	9.1	9.35	0.0	—	—	

**Table C 4.—EXTREME SOIL TEMPERATURE AT DIFFERENT DEPTHS (cms.)
IN DIFFERENT FIELDS**

NOVEMBER 1975

STATION	Highest (H) Lowest (L)	Extreme soil temperature (°C) in dry field at different depths (cms.)									Extreme soil temperature (°C) in grass field at different depths (cms.)								
		2	5	10	20	50	100	200	300	2	5	10	20	50	100	200	300		
Marsa Matruh . . .	H	29.7	28.4	25.0	23.4	24.0	24.0	24.6	—	—	—	—	—	—	—	—	—	—	
	L	11.0	11.4	14.0	17.0	19.4	22.0	23.4	—	—	—	—	—	—	—	—	—	—	
Tahrir . . .	H	33.4	30.3	27.1	24.8	24.8	25.9	26.9	27.1	24.7	23.5	22.4	21.6	22.4	23.5	24.9	—	—	
	L	10.9	11.2	13.6	17.6	20.1	22.1	24.0	25.6	12.8	13.6	14.0	16.2	17.6	19.4	21.9	—	—	
Bahtim . . .	H	39.0	32.2	28.4	26.3	27.1	28.0	28.0	27.0	26.4	22.1	21.3	21.2	22.2	23.3	23.6	—	—	
	L	12.1	12.4	15.6	19.9	22.9	25.0	26.7	26.6	11.1	11.8	13.4	15.4	17.9	20.5	22.4	—	—	
Kharga . . .	H	42.9	38.6	32.9	27.7	28.5	30.1	30.4	30.1	—	—	—	—	—	—	—	—	—	
	L	10.1	12.3	15.1	19.8	25.0	27.4	29.0	29.6	—	—	—	—	—	—	—	—	—	

TABLE C 5.—SURFACE WIND

NOVEMBER 1975

STATION	Wind Speed m/sec at 1½ metres			Days with surface wind speed at 10 metres							Max. Gust (knots (10 metres))	
	Mean of the day	Night time mean	Day time mean	≥ 10 (knots)	≥ 15 (knots)	≥ 20 (knots)	≥ 25 (knots)	≥ 30 (knots)	≥ 35 (knots)	≥ 40 (knots)	Value (knots)	Date
M.Matsuhi . . .	3.3	2.6	3.9	30	21	9	4	1	0	0	23	16.2
Tahrir . . .	1.6	0.9	2.2	24	6	0	0	0	0	0	26	19
Bahtin . . .	1.9	1.0	2.7	22	8	1	0	0	0	0	24	18
Kharga . . .	3.1	2.4	3.8	29	21	10	2	0	0	0	34	11

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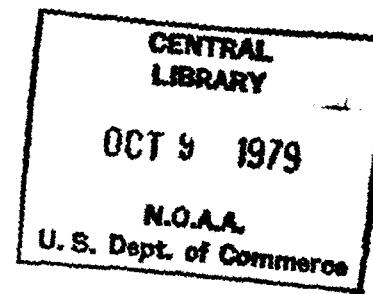
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THE EGYPTIAN METEOROLOGICAL AUTHORITY
CAIRO

PUBLICATIONS OF THE METEOROLOGICAL AUTHORITY OF THE ARAB REPUBLIC OF EGYPT—CAIRO

In fulfilment of its duties, the Egyptian Meteorological Authority issues several reports and publications on weather, climate and agro-meteorology. The principal publications are described on this page.

Orders for publications should be addressed to :

"Chairman of the Board of Directors, Meteorological Authority, Kubri-el-Qubbeh — CAIRO".

THE MONTHLY WEATHER REPORT

First issued in 1909, the Monthly Weather Report served to give a brief summary of the weather conditions that prevailed over Egypt during the month, with a table showing the mean values for few meteorological elements and their deviations from the normal values. From 1954 to 1957 this report was in a rapid state of development and extension resulting into a voluminous report on January 1958 giving surface, upper air, and agro-meteorological data for Egypt.

As from January 1964, the Monthly Weather Report was pressed to give climatological data for a representative selection of synoptic stations.

THE AGRO-METEOROLOGICAL ABRIDGED MONTHLY REPORT

Gives a review of weather experienced in the agro-meteorological stations of Egypt as well as monthly values of certain elements.

THE ANNUAL REPORT

This report gives annual values and statistics for the various meteorological elements, together with a summary of the weather conditions that prevailed during all months of the year.

CLIMATOLOGICAL NORMALS FOR EGYPT

A voluminous edition was issued in March 1968 which brings normals and mean values up till 1960.

METEOROLOGICAL RESEARCH BULLETIN

First issued in January 1969 on a bi-annual basis. It includes research works carried out by members of staff of "The Meteorological Institute for Research and Training" and the Operational Divisions of the Meteorological Authority.

TECHNICAL NOTES

As from October 1970, the Meteorological Authority started to issue a new series of publications in the form of Technical Notes (non periodical) on subjects related to studies and applications of meteorology in different fields for the benefit of personnel working in these fields.

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Note For explanatory notes on the tables please refer to Volume 18 number 1(January 1975).

GENERAL SUMMARY OF WEATHER CONDITIONS

DECEMBER 1975

Cold winter weather with subnormal rainfall

PRESSURE DISTRIBUTION

Four depressions passed through the East Mediterranean on the 8th, 16th, 21st & 28th; the last one was the deepest.

Otherwise, high pressure established over the area.

Mean atmospheric pressure was above normal in general.

SURFACE WIND

Surface winds were generally light to moderate W ly & NW ly in north. SW ly winds, fresh to strong at times, blew during several days in association with cold waves.

In south, light to moderate N ly and NW ly winds prevailed and were fresh during few days.

TEMPERATURE

Four cold waves were experienced most days of the month. The last two waves were the most pronounced and prevailed during the last ten days..

Maximum air temperatures were moderately below normal in general.

Minimum air temperature showed frequent variations below and above normal; departures from normal were slight to moderate in general.

The highest & lowest maximum air temperatures reported were respectively 31.0°C at luxor on the 25th and 13.0°C at Matruh on the 28th.

The highest & lowest minimum air temperatures reported were respectively 17.5°C at Quseir on the 2nd & 22nd and 0°C at Kom Ombo on the 30th.

PRECIPITATION

Light to moderate rainfall over the northern parts during several days, mostly during the first week and the period (26th-30th).

In particular rain was heavy over the Mediterranean district on the 28th.

Monthly rainfall amounts were below normal in general.

The highest monthly rainfall reported was 88.7 mm. at Ras El Teen.

The highest daily rainfall reported was 40.9 mm. at Mamoura on the 28th.

OTHER WEATHER PHENOMENA

Thunderstorms were reported during few days over scattered places in the Mediterranean district.

Early morning mist developed during several days over scattered places in Delta, Cairo and Middle Egypt.

Rising sand was reported in some days over scattered places.

Cairo, February 1977

Chairman (A. F. HASAN)

Board of Directors

SURFACE DATA

**Table A 1.—MONTHLY VALUES OF THE ATMOSPHERIC PRESSURE, AIR TEMPERATURE,
RELATIVE HUMIDITY, BRIGHT SUNSHINE DURATION & PICHE EVAPORATION**

DECEMBER — 1975

STATION	Atmospheric Pressure (mbs) M.S.L.		Air Temperature °C										Relative Humidity %	Bright Sunshine Duration (Hours)	Piche Evaporation mm Mean	
	Mean	D.F. Normal or Average	Maximum		Minimum		$\frac{A+B}{2}$	Dry Bulb		Wet Bulb				Total Actual	Total Possible	%
			(A) Mean	D.F. Normal or Average	(B) Mean	D.F. Normal or Average		Mean	D.F. Normal or Average	Mean	D.F. Normal or Average	Mean	D.F. Normal or Average			
Sallum	1018.2	+ 1.3	19.4	- 1.0	12.0	+ 1.1	15.7	15.3	+ 0.1	11.3	- 0.0	60	+ 3	—	—	6.8
Mersa Matruh (A)	1018.4	+ 0.8	18.7	- 1.0	10.9	+ 0.9	14.8	14.6	+ 0.2	11.3	- 0.1	70	+ 5	313.9	50	5.6
Alexandria . . (A)	1018.3	+ 0.7	19.8	- 0.7	10.6	- 0.2	15.2	14.9	- 0.3	11.6	- 0.9	68	+ 2	162.2	315.6	51
Port Said	1017.2	0.0	20.1	+ 0.2	12.3	- 1.0	16.2	15.4	- 0.8	12.5	- 0.1	71	+ 1	189.1	315.6	60
El Arish	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Ghazza	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tanta	1018.3	+ 1.0	19.7	- 1.6	8.3	+ 0.2	14.0	13.1	- 1.3	10.8	- 0.7	76	+ 9	180.5	316.9	57
Cairo . . . (A)	1018.2	+ 0.2	19.6	- 1.1	10.4	0.0	15.0	14.7	- 0.6	11.0	- 0.3	63	+ 3	—	—	7.5
Fayoum	—	—	21.0	- 0.9	8.1	- 0.2	14.6	14.0	- 0.1	11.2	+ 0.6	71	- 9	—	—	3.1
Minya . . . (A)	1019.3	+ 1.0	20.7	- 1.2	6.7	+ 0.1	13.8	13.4	- 0.1	9.9	- 0.1	64	+ 3	25.8	323.1	70
Assyout . . . (A)	1018.7	+ 0.7	20.0	- 2.2	6.4	- 2.2	13.2	12.9	- 2.1	8.5	- 1.5	53	+ 4	—	—	6.1
Luxor . . . (A)	1017.3	+ 0.3	23.9	- 0.9	7.1	- 0.3	15.5	14.8	- 0.3	10.5	- 0.4	57	+ 5	—	—	4.0
Aswan . . . (A)	1017.2	+ 0.6	23.4	- 2.1	9.7	- 0.2	16.6	16.1	- 1.3	10.2	- 0.3	44	+ 8	200.2	332.7	90
Siwa	1018.2	- 0.1	20.5	- 0.7	7.9	+ 1.9	14.2	13.7	+ 0.3	9.1	+ 0.1	52	- 2	251.1	320.1	78
Bahariya	1018.9	+ 0.4	20.9	- 0.7	7.5	+ 0.9	14.2	13.9	+ 0.4	9.5	+ 0.1	55	+ 7	—	—	5.3
Farafra	1020.6	+ 0.5	20.9	- 0.8	6.4	+ 0.8	13.6	13.4	+ 0.2	8.9	+ 0.6	52	+ 8	—	—	5.7
Dakha	1019.8	+ 1.8	22.0	- 1.2	4.4	- 1.5	13.2	12.5	- 1.4	7.8	- 0.5	51	+ 9	—	—	8.0
Kharga	1018.3	+ 0.9	22.6	- 1.3	8.7	+ 1.5	15.6	15.5	- 0.1	9.8	+ 0.6	50	+ 5	275.7	329.2	84
Tor	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hurghada	1016.8	+ 0.3	22.3	- 0.3	12.1	+ 0.5	17.2	16.8	- 0.4	11.9	- 0.6	54	0	25.7	325.9	82
Quseir	1016.9	+ 0.4	22.6	- 1.4	15.1	- 0.6	18.8	18.4	- 1.3	13.4	- 0.8	54	+ 3	—	—	6.7

Table A 2 — MAXIMUM AND MINIMUM AIR TEMPERATURE

DECEMBER — 1975

Station	Maximum Temperature °C										Gross Min. Temp.		Minimum Temperature °C									
	Highest	Date	Lowest	Date	No. of Days with Max-Temp.					Mean	Dev. From Normal	Highest	Date	Lowest	Date	No. of Days with Min. Temp.						
					>25	>30	>35	>40	>45							<10	<5	<0	<-5			
Sallum	23.0	2	13.6	22	0	0	0	0	0	10.8	—	15.5	5	7.4	28	5	0	0	0	0		
Marsa Matruh (A)	22.0	2.15	13.0	28	0	0	0	0	0	8.9	—	13.9	26	7.6	28	.9	0	0	0	0		
Alexandria . (A)	22.9	2	14.6	22	0	0	0	0	0	8.7	—	15.0	10	7.0	13	14	0	0	0	0		
Port Said . (A)	23.7	1	15.0	28	0	0	0	0	0	12.0	—	14.8	2	8.4	29	2	0	0	0	0		
El Arish	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Ghazza	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tanta	23.3	2.25	14.8	28	0	0	0	0	0	—	—	11.2	1	5.4	18.23	26	0	0	0	0	0	0
Cairo . . . (A)	25.2	25	15.1	22	1	0	0	0	0	—	—	14.3	21	6.7	13	12	0	0	0	0	0	0
Fayoum	24.7	25	16.0	28	0	0	0	0	0	5.3	—	12.0	22	5.4	31	27	0	0	0	0	0	0
Minya . . . (A)	25.6	25	16.6	22.29	1	0	0	0	0	3.9	—	10.8	22	3.0	19	30	4	0	0	0	0	0
Assyout . . . (A)	27.2	25	13.9	29	1	0	0	0	0	4.2	—	9.5	22	2.8	19	31	5	0	0	0	0	0
Luxor . . . (A)	31.0	25	17.6	29	10	1	0	0	0	2.1	—	13.2	26	2.3	30	26	6	0	0	0	0	0
Aswan . . . (A)	29.9	24	17.0	30	6	0	0	0	0	—	—	14.6	1	3.7	30	18	1	0	0	0	0	0
Siwa	25.2	20	14.7	22	1	0	0	0	0	6.8	—	13.0	6	3.9	11	23	4	0	0	0	0	0
Bahariya	26.4	20	14.9	28	3	0	0	0	0	6.8	—	11.4	26	5.2	11.13	29	0	0	0	0	0	0
Farafra	25.4	25	16.2	28	1	0	0	0	0	4.8	—	11.1	26	0.6	31	20	9	0	0	0	0	0
Dakhla	27.9	3	15.2	29	5	0	0	0	0	4.5	—	9.8	23	1.2	29	31	21	0	0	0	0	0
Kharga	28.6	25	16.5	29	5	0	0	0	0	5.0	—	14.2	17	3.8	27	22	3	0	0	0	0	0
Tor	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hurghada	25.0	25	17.3	29	0	0	0	0	0	12.8	—	14.8	23	7.1	30	2	0	0	0	0	0	0
Quseir	24.8	9.26	18.2	29	0	0	0	0	0	—	—	17.5	2.22	11.7	30	0	0	0	0	0	0	0

Table A 3.—SKY COVER AND RAINFALL.

DECEMBER — 1975

Station	Mean Sky Cover (Oct.).					Rainfall mms.										
	00 U.T.	06 U.T.	12 U.T.	18 U.T.	Daily Mean	Total Amount	D. From Normal	Max. Fall in one day		Number of Days with Amount of Rain						
								Amount	Date	<0.1	≥0.1	≥1.0	≥5.0	≥10	≥25	≥50
Sallum	5.4	4.5	5.1	4.4	4.9	15.1	— 2.8	5.2	6	0	10	3	1	0	0	0
Mersa Matruh (A)	3.4	5.4	5.3	3.6	4.3	26.6	— 2.1	11.8	28	3	8	4	2	1	0	0
Alexandria . . (A)	4.0	5.6	5.9	4.6	5.0	54.2	+ 1.4	30.0	28	0	12	6	3	2	1	0
Port Said . . (A)	3.3	4.2	4.0	3.1	3.6	13.0	— 4.6	4.1	29	0	7	5	0	0	0	0
El Arish	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Ghazza	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tanta	1.7	3.7	5.0	2.2	3.1	10.8	+ 1.1	7.4	28	0	7	2	1	0	0	0
Cairo (A)	2.2	3.7	4.3	3.4	3.3	1.0	— 5.7	0.7	28	2	2	0	0	0	0	0
Fayoum	—	1.9	3.8	2.1	—	Tr.	— 4.0	Tr.	28.29	2	0	0	0	0	0	0
Minya . . . (A)	1.5	2.3	3.1	2.0	2.1	Tr.	— 0.6	Tr.	26	1	0	0	0	0	0	0
Assyout . . . (A)	0.8	1.2	1.3	1.3	1.2	0.9	— Tr.	0.0	—	0	0	0	0	0	0	0
Louxor . . . (A)	1.6	2.0	2.1	1.6	1.8	0.0	— Tr.	0.0	—	0	0	0	0	0	0	0
Aswan . . . (A)	0.4	1.4	1.3	0.6	0.9	0.0	— 0.1	0.0	—	0	0	0	0	0	0	0
Siwa	1.9	1.9	2.1	1.5	1.8	9.7	+ 7.6	8.9	22	0	2	1	1	0	0	0
Baharia	1.6	1.9	2.4	1.7	1.8	Tr.	— 0.8	Tr.	21.22	2	0	0	0	0	0	0
Farafra	—	1.6	2.2	1.7	—	0.0	— 0.2	0.0	—	0	0	0	0	0	0	0
Dakhlaia	0.6	1.4	1.5	0.7	1.0	0.0	— 0.6	0.0	—	0	0	0	0	0	0	0
Kharga	0.9	1.2	1.5	1.1	1.3	0.9	— 0.3	0.0	—	0	0	0	0	0	0	0
Tor	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hurghada	1.7	3.4	2.4	1.2	2.3	Tr.	— 1.8	Tr.	26	1	0	0	0	0	0	0
Quseir	1.2	3.1	3.0	1.3	2.1	Tr.	— 0.1	Tr.	30.31	2	0	0	0	0	0	0

Table A 4.—DAYS OF OCCURRENCE OF MISCELLANEOUS WEATHER PHENOMENA

DECEMBER—1975

Station	Precipitation				Frost	Thunderstorm	Mist Vis ≥ 1000 Metres	Fog Vis < 1000 Metres	Haze Vis ≥ 1000 Metres	Thick Haze Vis < 1000 Metres	Dust or Sandraising Vis ≥ 1000 Metres	Dust or Sandstorm Vis < 1000 Metres	Gale	Clear Sky	Cloudy Sky	
	Rain	Snow	Ice, Pellets	Hail												
Sallum	10	0	0	0	0	0	0	0	0	0	3	0	0	0	1	1
Marsa Matruh	8	0	0	0	0	0	0	0	0	0	7	0	0	0	2	6
Alexandria	12	0	0	0	0	3	1	1	0	0	2	0	0	0	1	7
Port Said (A)	1	0	0	0	0	1	1	1	0	0	1	0	0	0	0	3
El Arish	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Ghazza	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tanta	7	0	0	0	0	0	3	0	1	0	1	0	0	0	10	2
Cairo (A)	2	0	0	0	0	0	10	0	10	0	6	2	0	0	7	3
Fayoum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	—	—
Minya (A)	0	0	0	0	0	0	13	9	3	0	2	0	0	0	18	2
Assyout (A)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23	1
Luxor (A)	0	0	0	0	0	0	0	0	18	0	5	0	0	0	20	3
Aswan (A)	0	0	0	0	0	0	0	0	1	0	2	0	0	0	24	0
Siwa	2	0	0	0	0	0	0	0	0	0	0	0	0	0	19	2
Bahariya	0	0	0	0	0	0	0	0	0	0	2	0	0	0	19	3
Farafra	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
Dakhla	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	0
Kharga	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	1
Tor	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hurghada	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19	3
Quseir	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	2

Table A 5.—NUMBER IN HOURS OF OCCURRENCES OF CONCURRENT SURFACE WIND SPEED AND DIRECTION RECORDED WITHIN SPECIFIED RANGES

DECEMBER— 1975

Station	Calm (hours)	Variable (hours)	Unrecorded (hours)	Wind speed in knots	Number in hours of occurrences of wind blowing from the ranges of directions indicated													All directions
					345	015	045	075	105	135	165	195	225	255	285	315		
					/	/	/	/	/	/	/	/	/	/	/	/		
El Alum	0	2	0	1—10	16	22	48	13	15	23	23	22	35	71	125	79	492	
				11—27	0	2	43	3	3	1	0	3	21	49	100	25	250	
				28—47	6	0	0	0	0	0	0	0	0	0	0	0	0	
				≥ 48	0	0	0	0	0	0	0	0	0	0	0	0	0	
				All speeds	16	24	91	16	18	24	23	25	56	120	225	104	742	
Meras Matruh . . (A)	6	0	2	1—10	34	24	18	8	22	46	58	66	75	26	14	36	427	
				11—27	30	25	9	5	3	4	10	32	73	42	30	40	303	
				28—47	0	0	0	0	0	0	0	1	5	0	0	0	6	
				≥ 48	0	0	0	0	0	0	0	0	0	0	0	0	0	
				All speeds	64	49	27	13	25	50	68	99	153	68	44	76	736	
Alexandria	11	1	1	1—10	0	54	43	41	28	21	49	85	10	26	17	89	503	
				11—27	13	16	3	2	0	0	3	48	18	19	40	59	221	
				28—47	0	0	0	0	0	0	0	4	3	0	0	0	7	
				≥ 48	0	0	0	0	0	0	0	0	0	0	0	0	0	
				All speeds	53	70	46	43	28	21	52	137	31	45	57	148	731	
Tanta	33	0	0	1—10	49	39	51	28	27	8	20	33	114	84	79	82	619	
				11—27	5	2	9	2	3	0	6	1	44	21	0	5	92	
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0	
				≥ 48	0	0	0	0	0	0	0	0	0	0	0	0	0	
				All speeds	54	41	60	30	30	8	20	39	158	105	79	87	711	
Cairo (A)	0	1	8	1—10	67	47	43	29	24	21	53	12	43	35	43	26	493	
				11—27	6	21	7	8	1	7	13	73	53	11	0	2	182	
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0	
				≥ 48	0	0	0	0	0	0	0	0	0	0	0	0	0	
				All speeds	73	68	50	31	25	28	66	135	76	46	43	28	615	
Fayoum	4	4	6	1—10	128	178	8	9	14	22	29	81	105	37	18	64	693	
				11—27	0	16	0	0	0	0	0	4	15	2	0	0	37	
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0	
				≥ 48	0	0	0	0	0	0	0	0	0	0	0	0	0	
				All speeds	128	194	8	9	14	22	29	85	120	39	18	64	730	
Minya (A)	15	6	0	1—10	241	31	2	1	2	61	32	25	17	25	36	95	568	
				11—27	61	41	0	0	0	0	0	1	5	17	19	11	165	
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0	
				≥ 48	0	0	0	0	0	0	0	0	0	0	0	0	0	
				All speeds	302	72	2	1	2	61	32	26	22	42	55	106	723	
Asyout (A)	22	5	0	1—10	87	36	4	0	1	9	31	25	46	56	111	140	566	
				11—27	31	20	0	0	0	1	6	0	0	13	44	36	151	
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0	
				≥ 48	0	0	0	0	0	0	0	0	0	0	0	0	0	
				All speeds	118	56	4	0	1	10	37	25	46	69	155	196	717	

**Table A 5 (contd.)—NUMBER IN HOURS OF OCCURRENCES OF CONCURRENT SURFACE
WIND SPEED AND DIRECTION RECORDED WITHIN SPECIFIED RANGES
DECEMBER — 1975**

Station	calm (hours)	Variable (hours)	Unrecorded (hours)	Wind speed in knots	Number in hours of occurrences of wind blowing from the ranges of directions indicated													All directions
					345 014	015 044	045 074	075 104	105 134	135 164	165 194	195 224	225 254	255 284	285 314	315 344		
Luxor	159	0	0	1—10	65	63	38	25	11	27	92	70	41	45	46	52	575	
				11—27	0	0	0	0	0	0	0	0	0	0	1	7	2	10
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	65	63	38	25	11	27	92	70	41	46	53	54	585	
Aswan	28	0	0	1—10	37	86	4	1	0	1	3	1	1	5	36	117	602	
				11—27	64	5	0	0	0	0	0	0	0	1	5	6	38	114
				28—47	0	6	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	411	91	4	1	0	1	3	1	1	2	5	42	155	716
Siwa	46	40	0	1—10	12	18	5	72	72	51	33	13	27	119	90	34	599	
				11—27	0	0	0	0	0	1	2	0	4	17	10	9	59	
				28—47	0	0	0	1	0	0	0	0	0	0	0	0	0	
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0	
				All speeds	13	18	60	76	72	53	35	13	31	136	106	43	658	
Dakhla	15	7	0	1—10	60	39	30	19	17	8	22	37	61	86	164	136	682	
				11—27	2	2	0	6	0	0	0	0	0	0	17	19	40	
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0	
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0	
				All speeds	62	41	30	19	17	8	22	37	64	86	181	155	722	
Kharga	14	1	0	1—10	283	91	32	29	19	12	14	6	6	27	47	69	642	
				11—27	71	7	0	0	0	0	0	0	0	0	0	6	3	87
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0	
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0	
				All speeds	354	98	39	29	19	12	14	6	6	27	53	72	729	
Hurghada	3	0	1	1—10	36	22	8	5	5	2	1	1	11	69	216	56	432	
				11—27	31	0	0	0	0	3	0	0	0	0	24	125	123	308
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0	
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0	
				All speeds	61	22	8	5	5	5	1	1	11	93	341	181	740	
Quseir	0	2	0	1—10	70	27	8	3	2	6	3	11	31	207	120	29	517	
				11—27	7	0	0	0	0	0	0	0	0	0	15	46	85	226
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0	
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0	
				All speeds	149	27	8	3	3	6	3	11	31	222	166	114	743	

UPPER AIR CLIMATOLOGICAL DATA

Table B 1—MONTHLY MEANS AND MONTHLY ABSOLUTE HIGHER & LOWER
VALUES OF ALTITUDE, AIR TEMPERATURE & DEW POINT AT
STANDARD AND SELECTED PRESSURE SURFACES

DECEMBER 1975

Station	Pressure Surface (Millibar)	Altitude of Pressure Surface (gpm)				Temperature (°C)				Dew Point (°C)	
		N	Mean	Highest	Lowest	N	Mean	Highest	Lowest	N	Mean
Marsa Matruh 0000 UT	Surface	31	1015*m.b.	1020*m.b.	1007*m.b.	31	13.7	16.7	9.6	31	7.3
	1000	31	157	196	87	31	13.7	15.6	8.8	31	7.9
	850	31	1507	1552	1431	31	—3.9	14.9	0.3	31	—0.1
	700	31	3070	3141	2978	31	—2.8	3.8	11.4	31	—13.0
	600	31	4275	4375	4150	31	—10.1	—5.1	—19.7	31	—20.8
	500	31	5613	5786	5482	31	—20.0	—15.0	—27.0	31	—30.2
	400	31	7272	7421	7072	31	—31.8	—25.9	—39.0	31	—42.0
	300	31	9249	9434	9031	31	—45.1	—38.2	—49.5	31	—54.6
	250	30	10147	10636	10244	30	—52.1	—42.9	—57.5	29	—61.4
	200	28	11865	12044	11689	28	—57.4	—50.3	—63.9	14	—65.6
	150	27	13677	13818	1309	27	—60.3	—54.8	—69.1	14	—67.7
	100	22	16174	16302	1619	22	—64.5	—61.1	—69.7	—	—
	70	12	18358	18458	1829	12	—63.6	—60.1	—69.3	—	—
	60	8	17398	19700	19220	8	—62.2	—59.6	—65.8	—	—
	50	8	20436	2051	20275	8	—60.7	—58.9	—65.2	—	—
	40	3	21920	27030	21820	3	—57.7	—56.8	—58.4	—	—
	30	2	23724	28781	2346	2	—55.4	—54.4	—56.1	—	—
	20	—	—	—	—	—	—	—	—	—	—
	10	—	—	—	—	—	—	—	—	—	—
El-Jawian 0000 UT	Surface	31	1001*m.b.	100*m.b.	993*m.b.	31	12.2	17.0	9.0	31	6.5
	1000	31	131	193	80	22	12.0	14.0	9.0	22	6.6
	850	30	1501	1542	1450	29	5.7	13.0	—2.0	29	—2.6
	700	30	3050	3144	2970	30	—1.7	4.0	—12.9	30	—15.0
	600	30	4282	4378	4130	30	—9.1	—4.5	—29.3	30	—22.6
	500	29	5770	5730	5456	29	—18.3	—13.1	—30.1	29	—30.4
	400	28	7360	7456	7032	28	—29.3	—24.3	—34.8	28	—41.4
	300	27	9291	940	9030	27	—43.7	—37.0	—48.0	27	—53.1
	250	26	10191	10700	10250	24	—6.9	—12.1	—57.2	24	—60.1
	200	23	11926	12136	11727	23	—56.0	—46.9	—61.7	26	—67.8
	150	20	13752	13916	13650	20	—59.7	—48.0	—7.7	11	—65.7
	100	11	16242	1639	16111	11	—61.7	—59.5	—9.0	—	—
	70	9	18416	18490	18243	9	—63.2	—60.9	—69.9	—	—
	60	7	19419	19630	19230	7	—62.3	—59.8	—64.3	—	—
	50	7	20487	2057	20303	7	—61.0	—58.0	—68.1	—	—
	40	5	21952	22070	21770	5	—58.5	—56.7	—60.9	—	—
	30	5	23687	23835	23493	5	—56.6	—53.6	—58.5	—	—
	20	2	26227	26368	26086	2	—53.0	—52.7	—53.4	—	—
	10	—	—	—	—	—	—	—	—	—	—
Aswan 0000 UT	Surface	30	99*m.b.	100*m.b.	988*m.b.	30	12.0	16.6	7.2	30	2.1
	1000	30	131	193	108	2	8.1	9.2	7.2	2	0.4
	850	30	1516	1538	1484	30	10.0	16.0	—1.1	30	—3.6
	700	30	3112	3159	3050	30	3.3	8.3	—2.1	29	—13.0
	600	29	4316	4407	4265	29	—4.1	0.7	—8.8	28	—18.4
	500	29	5761	5843	5676	29	—13.0	—7.7	—19.0	29	—26.1
	400	28	7426	7524	7277	28	—21.5	—15.8	—31.2	28	—34.9
	300	21	9473	9581	9343	21	—39.6	—36.2	—44.6	18	—48.1
	250	13	10713	10811	10.00	13	—48.0	—41.3	—51.4	13	—55.8
	200	12	12153	12251	12033	12	—58.3	—51.4	—62.0	8	—64.7
	150	7	13936	14001	13851	7	—68.0	—61.6	—74.2	—	—
	100	1	16344	—	—	1	—74.3	—	—	—	—
	70	—	—	—	—	—	—	—	—	—	—
	60	—	—	—	—	—	—	—	—	—	—
	50	—	—	—	—	—	—	—	—	—	—
	40	—	—	—	—	—	—	—	—	—	—
	30	—	—	—	—	—	—	—	—	—	—
	20	—	—	—	—	—	—	—	—	—	—
	10	—	—	—	—	—	—	—	—	—	—

N = The number of cases the element has been observed during the month.

* The atmospheric pressure corrected to the elevation of the radiosonde station.

UPPER AIR CLIMATOLOGICAL DATA

Table B1 (contd).—MONTHLY MEANS, ABSOLUTE HIGHER & LOWER VALUES OF ALTITUDE, AIR TEMPERATURE & DEW POINT AT STANDARD AND SELECTED PRESSURE SURFACES
DECEMBER — 1975

Station	Pressure Surface (Millibar)	Altitude of Pressure Surface (gpm)				Temperature (°C)				Dew Point (°C)	
		N	Mean	Highest	Lowest	N	Mean	Highest	Lowest	N	Mean
Marsa Matruh 1200 U.T.	Surface	13	1015m.b.	1021m.b.	1006m.b.	31	17.7	23.4	13.0	31	8.2
	1000	13	157	204	079	31	16.3	22.0	12.0	31	6.7
	850	13	15.9	1.41	1433	31	5.3	12.8	-1.9	31	-2.6
	700	30	3075	31.3	2982	30	-1.9	3.5	-10.7	30	-17.2
	600	30	285	4366	4158	30	-9.3	-2.3	-17.0	30	-21.4
	500	30	5.68	3777	5499	30	-18.9	-11.5	-27.2	30	-35.0
	400	30	723	7450	7064	30	-30.8	-22.4	-40.2	30	-44.7
	300	30	9273	9505	9014	30	-44.7	-35.4	-49.7	30	-57.7
	250	29	10414	10751	10219	29	-51.4	-40.2	-57.5	29	-63.7
	200	29	11910	12228	11754	29	-56.3	-48.0	-68.0	18	-68.4
	150	27	13729	14063	13582	27	-59.8	-53.0	-69.7	8	-72.5
	100	23	162.2	16575	1098	23	-63.3	-58.3	-69.7	1	-77.6
	70	12	18123	18522	18318	12	-61.5	-55.1	-55.7	—	—
	60	9	19416	19550	19300	9	-59.4	-55.2	-64.5	—	—
	50	9	26516	26007	20398	9	-57.5	-53.9	-61.8	—	—
	40	4	2.025	22300	21760	4	-55.2	-50.7	-58.5	—	—
	30	2	237.4	23911	23616	2	-51.0	-47.2	-54.9	—	—
	20	—	—	—	—	—	—	—	—	—	—
	10	—	—	—	—	—	—	—	—	—	—
Helwan 1200 U.T.	Surface	31	1001m.b.	1008m.b.	996m.b.	31	18.4	23.2	12.6	31	5.6
	1000	31	147	206	102	21	17.9	21.1	12.5	20	6.0
	850	31	1513	1588	1415	31	7.2	17.0	0.7	31	2.2
	700	31	3089	3156	278	31	-0.6	6.6	-10.9	31	-14.4
	600	31	4304	4398	4157	31	-7.6	-2.0	-12.3	30	-21.5
	500	30	5791	5849	5508	30	-16.5	-12.0	-25.2	30	-19.8
	400	29	7341	7487	7098	29	-27.7	-21.4	-35.3	29	-31.5
	300	28	93.7	9523	9094	28	-41.1	-35.1	-46.3	28	-52.4
	250	28	10594	11113	10322	28	-48.2	-41.7	-55.7	28	-58.6
	200	26	12631	1238	11822	26	-53.4	-42.1	-69.0	26	-63.7
	150	22	13853	14066	13487	22	-56.7	-51.3	-66.5	14	-65.1
	100	17	16382	16005	15197	17	-61.1	-58.2	-68.0	1	-66.9
	70	10	18595	18743	18708	10	-59.7	-54.6	-62.7	—	—
	60	8	19412	19836	19410	8	-57.6	-49.1	-61.9	—	—
	50	8	20731	20935	2017	8	-51.8	-45.1	-60.4	—	—
	40	5	22278	22579	21970	5	-50.5	-40.9	-56.2	—	—
	30	4	24160	24414	23902	4	-42.9	-35.5	-51.9	—	—
	20	2	26771	26982	26560	2	-41.4	-35.7	-47.6	—	—
	10	—	—	—	—	—	—	—	—	—	—
Aswan (A) 1200 U.T.	Surface	31	* 994mb.	* 1000mb.	* 989m.b.	31	23.3	28.2	35.0	31	5.2
	1000	31	143	193	096	1	20.4	—	—	1	-2.0
	850	31	1526	1557	1497	31	11.9	18.1	4.2	31	-6.3
	700	31	3125	3173	3085	31	5.0	9.8	-0.7	31	-16.0
	600	30	4376	4424	4313	30	-2.2	1.5	-5.2	30	-22.0
	500	30	5802	5861	5727	30	-11.2	-7.2	-15.3	30	-29.5
	400	29	7488	7542	7377	29	-23.4	-17.0	-28.0	29	-38.3
	300	29	9524	9008	9377	29	-37.6	-33.1	-43.1	29	-51.1
	250	27	10759	10853	10592	27	-45.9	-38.8	-53.6	27	-58.2
	200	17	12223	12322	12040	17	-55.3	-50.1	-60.7	16	-66.7
	150	13	14016	14085	13934	13	-65.2	-59.1	-70.0	3	-71.9
	100	5	16402	16500	16356	5	-72.2	-69.9	-75.6	—	—
	70	1	18490	—	—	1	-72.1	—	—	—	—
	60	—	—	—	—	—	—	—	—	—	—
	50	—	—	—	—	—	—	—	—	—	—
	40	—	—	—	—	—	—	—	—	—	—
	30	—	—	—	—	—	—	—	—	—	—
	20	—	—	—	—	—	—	—	—	—	—
	10	—	—	—	—	—	—	—	—	—	—

* The atmospheric pressure corrected to the elevation of the radiosonde station.

— The number of cases the element has been observed during the month.

**Table B 2.—MEAN AND EXTREME VALUES OF THE FREEZING LEVEL AND THE TROPOPAUSE.
THE HIGHEST WIND SPEED IN THE UPPER AIR
DECEMBER — 1975**

Station	Freezing level												First Tropopause												Highest wind speed							
	Mean				Highest				Lowest				Mean				Highest				Lowest				Altitude (gpm)		Pressure (mb.)		Direction (000—360°)		Speed in Knots	
	Altitude (gpm)	Pressure (mb.)	Dew point (°C)	Altitude (gpm)	Pressure (mb.)	Dew point (°C)	Altitude (gpm)	Pressure (mb.)	Dew point (°C)	Altitude (gpm)	Pressure (mb.)	Temperature (°C)	Altitude (gpm)	Pressure (mb.)	Temperature (°C)	Altitude (gpm)	Pressure (mb.)	Temperature (°C)	Altitude (gpm)	Pressure (mb.)	Temperature (°C)	Altitude (gpm)	Pressure (mb.)	Temperature (°C)	Altitude (gpm)	Pressure (mb.)	Direction (000—360°)	Speed in Knots				
Mersa Matruh (A)	(N) 2337 (31)	(N) 764 (31)	(N) -5.2 (-31)	3020 (31)	660 (-31)	-7.7 (-31)	1280 (-31)	870 (-31)	0.0 (-31)	(N) 11844 (20)	(N) 203 (20)	(N) -59.2 (20)	18400 (20)	71 (20)	18400 (20)	(N) -64.9 (20)	(N) 9900 (20)	(N) 261 (20)	(N) 51.5 (20)	(N) 2115 (20)	(N) 805 (20)	(N) 280 (20)	(N) 36 (20)									
Heliwan . . . (A)	2659 (29)	739 (29)	-9.2 (-9)	3720 (-9)	6.0 (-9)	-27.0 (-9)	1190 (-9)	880 (-9)	-1.9 (-9)	11475 (22)	219 (22)	-57.1 (22)	14430 (22)	132 (22)	14430 (22)	-66.3 (22)	9000 (22)	286 (22)	-47.9 (22)	12790 (22)	178 (22)	280 (22)	150 (22)									
Aswan . . . (A)	3522 (29)	662 (29)	-14.0 (-29)	4500 (-29)	594 (-29)	-12.5 (-29)	1340 (-29)	870 (-29)	-2.2 (-29)	—	—	—	—	—	—	—	—	—	—	2785 (29)	732 (29)	330 (29)	57 (29)									
Mersa Matruh (A)	(N) 2591 (30)	(N) 77 (-30)	(N) -11.3 (-30)	3970 (-30)	630 (-30)	-12.0 (-30)	1200 (-30)	778 (-30)	-10.0 (-30)	(N) 1753 (21)	(N) 216 (21)	(N) -57.6 (21)	16150 (21)	101 (21)	16150 (21)	-60.0 (21)	9280 (21)	295 (21)	-50.5 (21)	12490 (21)	186 (21)	270 (21)	200 (21)									
Heliwan . . . (A)	2814 (31)	727 (31)	-9.5 (-31)	4080 (-31)	622 (-31)	-12.1 (-31)	1560 (-31)	811 (-31)	-0.4 (-31)	11521 (21)	220 (21)	-54.9 (21)	1380 (21)	151 (21)	1380 (21)	-66.7 (21)	8380 (21)	310 (21)	-39.9 (21)	16110 (21)	164 (21)	306 (21)	145 (21)									
Aswan . . . (A)	3959 (30)	633 (30)	-19.8 (-30)	4000 (-30)	587 (-30)	-18.7 (-30)	2970 (-30)	710 (-30)	-18.6 (-30)	14050 (1)	147 (1)	-70.8 (1)	—	—	—	—	—	—	—	8970 (1)	327 (1)	270 (1)	170 (1)									

Table B3.— NUMBER OF OCCURRENCES OF WIND DIRECTION WITHIN SPECIFIED RANGES AND THE MEAN SCALAR WIND SPEED AT THE STANDARD AND SELECTED PRESSURE SURFACES
MERSA MATRUH (A) — DECEMBER 1975

N = The number of cases the wind has been observed from the range of direction during the month.

TN = The total number of cases the wind has been observed for all directions during the month.

Table 3.—NUMBER OF OCCURRENCES OF WIND DIRECTION WITHIN SPENCIFIED RANGES AND THE MEAN SCALAR WIND SPEED AT THE STANDARD AND SELECTED PRESSURE SURFACES
HELWAN DECEMBER 1975

Pressure Surface (Millibar)	Wind between ranges of direction (000—360)°														Number of Calm winds os	Total number of observation (TN)	Mean scalar Wind speed (Knots)										
	345		015		045		075		105		135		165		195		225		255		285						
	014	04	074	104	134	164	194	224	254	284	314	344	N m	N m	N m	N m	N m	N m	N m	N m	N m	N m	N m	N m	N m	N m	N m
Surface	3	8	7	2	9	4	8	3	3	5	6	0	—	1	0	2	5	0	—	0	—	2	4	1	31	6	
1000	1	7	7	8	3	12	3	10	1	3	1	4	0	—	0	—	5	1	6	1	11	2	6	0	22	8	
850	3	17	5	16	2	16	2	8	0	—	0	—	0	—	0	—	2	4	20	5	20	7	16	0	30	17	
700	5	19	2	20	0	—	1	11	1	50	9	—	0	—	1	3	3	22	11	25	6	20	0	30	24		
600	3	27	1	16	0	—	0	—	0	—	0	—	0	—	0	—	7	25	11	39	8	20	0	30	29		
500	3	27	2	36	0	—	0	—	0	—	0	—	0	—	0	—	4	40	9	34	7	41	0	25	36		
400	2	32	2	34	0	—	0	—	0	—	0	—	0	—	0	—	5	47	9	68	7	49	0	25	53		
300	2	66	1	20	0	—	0	—	0	—	0	—	0	—	0	—	3	53	6	57	5	72	0	17	59		
250	1	0	0	—	0	—	0	—	0	—	0	—	0	—	0	—	4	64	3	46	8	73	0	16	65		
200	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	2	94	7	73	2	106	0	11	83		
150	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	3	75	5	79	0	—	0	8	78		
100	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	3	74	0	—	0	3	74		
70	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	23	0	—	0	—	0	1	23		
60	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	39	0	—	0	—	0	1	39		
50	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	7	0	—	0	—	0	1	7		
40	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	56	0	—	0	1	50		
30	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	18	0	—	0	—	0	1	18		
20	—	—	0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
10	—	—	0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
0900UT.																											
Surface	8	8	3	12	1	07	0	—	0	—	2	07	1	03	4	07	5	08	1	02	2	14	4	10	0	31	8
1000	4	9	4	13	2	08	1	16	0	—	1	09	0	—	0	—	2	04	0	—	2	14	5	09	0	21	10
850	5	16	4	10	4	15	3	13	1	08	0	—	0	—	0	—	2	11	5	22	4	18	3	16	0	31	15
700	5	22	1	13	0	—	0	—	0	—	0	—	0	—	0	—	2	15	4	23	8	26	11	18	0	31	21
600	3	24	1	28	0	—	0	—	0	—	0	—	0	—	1	22	0	—	5	39	9	30	11	25	0	30	2
500	2	32	0	—	0	—	0	—	0	—	0	—	0	—	1	26	1	31	2	33	11	44	10	33	0	27	37
400	2	38	0	—	0	—	0	—	0	—	0	—	0	—	0	—	2	46	11	54	9	40	0	24	47		
300	0	—	1	46	0	—	0	—	0	—	0	—	0	—	0	—	3	57	14	76	5	57	0	23	68		
250	1	55	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	38	12	81	3	74	0	11	76		
200	1	105	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	69	7	69	2	84	0	11	74		
150	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	52	6	87	1	128	0	8	88		
100	1	39	0	—	0	—	0	—	0	—	0	—	0	—	0	—	2	41	1	54	0	—	0	4	74		
70	0	—	1	—	1	1	1	1	1	1	1	1	1	1	1	1	0	—	1	103	1	44	0	0	2		
60	0	—	1	—	1	1	1	1	1	1	1	1	1	1	1	1	0	—	1	41	0	—	0	1	41		
50	0	—	1	—	1	1	1	1	1	1	1	1	1	1	1	1	0	—	1	50	0	—	0	1	50		
40	0	—	1	—	1	1	1	1	1	1	1	1	1	1	1	1	0	—	1	118	0	—	0	1	118		
30	0	—	1	—	1	1	1	1	1	1	1	1	1	1	1	1	0	—	1	43	0	—	0	1	38		
20	0	—	1	—	1	1	1	1	1	1	1	1	1	1	1	1	0	—	1	43	0	—	0	1	43		
10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
(0000UT.)																											

N=The number of cases the wind has been observed from the range of direction during the month.

TN= The total number of cases the wind has been observed for all directions during the month.

TABLE B 3, (contd.)—NUMBER OF OCCURRENCES OF WIND DIRECTION WITHIN SPECIFIEDES AND THE MEAN SCALAR WIND SPEED AT THE STANDARD AND SELECTED PRESSURE SURFACES
ASWAN (A) DECEMBER — 1975

Pressure Surface Millibar	Wind between ranges of direction (000°—360°)*													Number of calm winds	Total numb observations (TN _{obs})	Mean scalar wind speed (knots)								
	345		015		045		075		105		135		165		195		225		255		285			
	/	014	/	044	/	074	/	104	/	134	/	164	/	194	/	224	/	254	/	284	/	314	/	344
	N	(ft)	N	(ft)	N	(ft)	N	(ft)	N	(ft)	N	(ft)	N	(ft)	N	(ft)	N	(ft)	N	(ft)	N	(ft)	N	(ft)
	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	
Surface	23	9	2	9	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	8	1	12	3	9
1000	2	10	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	30
850	4	15	1	12	2	14	3	13	1	8	0	—	0	—	0	—	0	—	2	16	5	21	12	17
700	0	—	0	—	0	—	0	—	0	—	0	—	1	11	0	—	0	—	2	29	1	13	0	20
600	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
500	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
400	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
300	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
250	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
200	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
150	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
100	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
70	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
60	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
50	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
40	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
30	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Surface	21	9	3	68	1	10	0	—	0	—	1	05	0	—	0	—	0	—	0	—	3	11	2	15
1000	0	—	0	—	1	10	0	—	0	—	0	06	1	05	3	10	0	—	0	—	0	—	0	31
850	4	18	5	13	1	11	4	10	0	—	1	06	1	05	3	12	3	19	9	29	1	16	1	10
700	2	07	0	—	0	—	0	—	0	—	0	—	1	13	2	12	3	19	9	18	4	18	0	30
600	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	5	26	13	35	8	25	3	29
500	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	6	42	13	54	6	30	1	24
400	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	4	48	15	76	7	50	0	26
300	0	—	0	—	0	—	0	—	0	—	0	—	1	80	4	80	13	86	1	50	0	0	0	19
250	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	79	7	101	2	74	0	0
200	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	5	122	1	101	0	—	0	6
150	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	110	2	112	0	—	0	—	0	119
100	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3
70	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
60	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
50	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
40	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
30	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

N = The number of cases the wind has been observed from the range of direction during the month.

TN = The total number of cases the wind has been observed for all directions during the month.

REVIEW OF AGRO-METEOROLOGICAL STATIONS

MERSA MATRUH — DECEMBER 1975

The mean daily air temperature was nearly normal, and the mean daily relative humidity was above normal. The total monthly rainfall was 26.6 mm. against 29.5 mm. for normal.

Weather was mainly characterized by three cold waves during the periods (3rd-11th), (22nd-24th) and (26th-31st). The last wave yielded the lowest maximum air temperature (13.0°C), the lowest minimum (7.6°C) and the maximum daily rainfall (11.8 mm.) on the 28th.

The highest maximum soil temperatures were higher than last December at all depths except at 20 cm. where it was slightly lower (by 0.1°C); the departures varied between 1.8°C (at 2 cm.) and 0.2°C (at 50 cm.). The lowest minimum soil temperatures were higher than last December at all depths with departures between 1.8°C (at 5 cm.) and 0.2°C (at 50 cm.).

The mean daily actual sunshine duration was lower than normal by 1.5 hour. The mean daily wind speed at 1.5 met. height was the same as the corresponding value of December 1974.

TAHRIR — DECEMBER 1975

The mean daily air temperature was below normal and the mean daily relative humidity was slightly above normal. The total monthly rainfall was 2.2 mm. against 6.3 mm. for normal.

Weather was characterized by three cold waves in the periods: (9th & 10th), (21st-24th) and (26th-31st). The second wave yielded both the lowest maximum air temperature (15.8°C) on the 22nd and the lowest minimum (3.0°C) on the 23rd. In the rest of the month mild winter weather was experienced.

The highest maximum soil temperatures were lower than average at depths between 2 & 10 cm. with departures between 1.4°C (at 2 cm.) & 0.1°C (at 10 cm.), the same as average at 20 cm.; and higher than average at 50,100 cm. by 0.7° & 0.5°C . The lowest minimum soil temperatures were lower than average at 2 & 5 cm. depths by 0.5°C & 0.1°C , higher than average at deeper depths with departures between 0.6°C (at 10 cm.) and 1.4°C (at 20 cm.).

The mean daily wind speed at 1.5 met. was the same as average. The mean daily actual sunshine duration and pan evaporation were lower than average by 1.2 hour and 0.93 mm.

BAHTIM — DECEMBER 1975

The mean daily air temperature and relative humidity were nearly the same as average. The total monthly rainfall was 2.1 mm. against 4.6 mm. for average.

Weather was characterized by four cold waves which prevailed most days of the month. The third cold wave persisted from the 20th till the 24th and was the coldest. It yielded the lowest maximum air temperature (15.2°C) on the 22nd and the lowest minimum air temperature at 5 cm. above both dry soil. -0.6°C and grass -0.1°C on the 23rd.

The highest maximum soil temperatures were higher than average at all depths with departures between 1.7°C (at 5 cm.) and 0.3°C (at 50 cm). The lowest minimum soil temperatures were also higher than average at all depths with departures between 1.7°C (at 2 cm.) and 0.5°C (at 50 cm.).

The mean daily wind speed at 1.5 met. height was slightly higher than average. The mean daily actual sunshine duration and pan evaporation were lower than average by 0.7 hour and 0.34mm.

KHARGA — DECEMBER 1975

The mean daily air temperature was rather normal and the mean daily relative humidity was above normal.

Weather was characterized by three cold waves during the periods (1st & 2 bd), (4th - 12th) and (26 - 31st). The last wave yielded both the lowest (3.8°C) on the 27th. In the rest of the month weather was generally mild.

The highest maximum soil temperatures were higher than average at all depths excepts at 20 cm where its value was lower by 0.3°C; the departures, varied between 4.0°C (at 2 cm.) and 0.4°C (at 100 cm). The lowest minimum soil temperatures were higher than average at all depths except at 10 & 20 cm. which were lower by 1.4°C & 1.1°C respectively; the departures varied between 1.2°C (at 2 cm.) and 0.1°C (at 5 cm.).

The mean of wind speed at 1.5 met. height, actual sunshine duration and pan evaporation were lower than normal by 0.6m./sec, 0.6 hour and 0.57mm respectively.

**Table C 1.— AIR TEMPERATURE AT $1\frac{1}{2}$ METRES ABOVE GROUND
DECEMBER - 1975**

STATION	Air Temperature ($^{\circ}\text{C}$)					Mean Duration in hours of daily air temperature above the following values										
	Mean Max.	Mean Min.	Mean of the day	Night time mean	Day time mean	-5°C	0°C	5°C	10°C	15°C	20°C	25°C	30°C	35°C	40°C.	45°C
Mersa Matruh	18.7	10.9	14.6	13.1	16.1	24.0	24.0	24.0	23.4	9.8	0.7	0.0	0.0	0.0	0.0	0.0
Tahrir	21.3	7.5	13.2	10.6	16.0	24.0	24.0	23.7	17.8	8.0	1.5	0.0	0.0	0.0	0.0	0.0
Bahtim	19.5	7.4	13.0	10.5	15.5	24.0	24.0	23.6	17.9	7.2	0.8	0.63	0.0	0.0	0.0	0.0
Kharga	22.6	8.6	15.6	13.1	18.2	24.0	24.0	23.8	20.7	13.0	4.4	0.2	0.0	0.0	0.0	0.0

**Table C 2.— EXTREME VALUES OF AIR TEMPERATURE AT $1\frac{1}{2}$ METRES ABOVE GROUND,
ABSOLUTE MINIMUM AIR TEMPERATURE AT 5cms ABOVE GROUND OVER
DIFFERENT FIELDS.**

DECEMBER - 1975

STATION	Max. Temp. at $1\frac{1}{2}$ metres ($^{\circ}\text{C}$)				Min. Temp. at $1\frac{1}{2}$ metres ($^{\circ}\text{C}$)				Min. Temp. at 5 cms. above ($^{\circ}\text{C}$)			
	Highest		Lowest		Highest		Lowest		Dry soil		Grass	
	Value	Date	Value	Date	Value	Date	Value	Date	Value	Date	Value	Date
Matruh	22.0	2,15	13.0	28	13.9	20	7.6	28	5.2	14	—	—
Tahrir	25.6	2	15.8	22	11.4	4	3.0	23	6.8	23	0.2	23
Bahtim	25.4	25	15.2	22	13.2	20	3.2	21	0.6	23	-0.1	23
Kharga	28.6	25	16.5	29	14.2	17	3.8	27	1.8	27	—	—

Table C 3.—(SOLAR + SKY) RADIATION, DURATION OF BRIGHT SUNSHINE, RELATIVE HUMIDITY, VAPOUR PRESSURE AT $1\frac{1}{2}$ METRES ABOVE GROUND, EVAPORATION & RAINFALL.

DECEMBER - 1975

STATION	Sun. (hrs) + Sky (hrs) Total (hrs)	Duration of Bright Sunshine (hours)			Relative Humidity			Vapour pressure (mms)				Evaporation (mms)		Rainfall (mms)					
		Total Actual monthly	Total Possibly monthly	%	Mean of day	1200 U.T.	Lowest	Date	Mean of day	1200 U.T.	Highest	Date	Lowest	Date	Piche	Pan class A	Total Amount Monthly	Max. Fall in one day	Date
Matruh	172.4	158.5	213.9	59	69	59	46	15.19	8.5	9.2	13.2	1	5.7	4	5.3	—	26.6	11.8	28
Tahrir	282.9	188.6	316.9	60	73	52	37	20.25	8.2	8.6	11.9	21	4.2	23	3.1	2.88	2.2	0.6	6
Bahtim	246.2	184.5	317.6	58	71	51	23	25	7.9	8.2	11.7	21	5.6	25	3.3	3.01	2.1	1.0	26
Kharga	366.5	275.7	329.2	84	49	33	17	20	6.4	6.3	10.7	25	3.3	4.522	5.9	5.96	0.0	—	—

**Table C 4.—EXTREME SOIL TEMPERATURE AT DIFFERENT DEPTHS (cms)
IN DIFFERENT FIELDS**

DECEMBER — 1975

STATION	Highest (H) Lowest (L)	Extreme soil temperature (°C) in dry field at different depths (cms.)								Extreme soil temperature (°C) in grass field at different depths (cms.)							
		2	5	10	20	50	100	200	300	2	5	10	20	50	100	200	300
Mersa Matruh.	H	23.8	22.8	20.3	18.4	20.2	21.8	23.5	—	—	—	—	—	—	—	—	—
	L	5.8	9.1	10.5	12.4	15.4	18.4	21.8	—	—	—	—	—	—	—	—	—
Tahrir	H	26.8	24.5	22.1	19.8	20.3	21.9	24.3	25.3	20.6	19.1	18.3	17.7	17.8	19.3	21.7	—
	L	5.6	6.8	9.2	13.2	15.9	18.5	21.5	23.5	9.3	10.1	10.8	12.6	14.1	15.9	18.9	—
Bahtim	H	30.9	26.0	22.4	21.0	22.8	24.9	26.7	26.7	21.6	17.4	16.6	16.3	18.0	20.3	22.7	—
	L	6.4	8.5	12.7	16.8	19.5	21.9	24.9	25.8	8.0	9.0	11.0	12.7	15.3	17.5	20.7	—
Kharga	H	38.1	32.6	27.7	23.0	25.0	27.4	29.0	29.6	—	—	—	—	—	—	—	—
	L	5.7	7.2	10.0	15.0	21.0	24.3	27.2	38.7	—	—	—	—	—	—	—	—

Table C 5.—SURFACE WIND

DECEMBER — 1975

STATION	Wind Speed m/sec at 1½ metres			Days with surface wind speed at 10 metres							Max. Gust. (knots) at 10 metres	
	Mean of the day	Night time mean	day time mean	≥ 10 knots	≥ 15 knots	≥ 20 knots	≥ 25 knots	≥ 30 knots	≥ 35 knots	≥ 40 knots	value	Date
Mersa Matruh.	3.8	3.3	4.3	80	21	15	8	5	2	0	44	28
Tahrir	2.0	1.5	2.4	25	13	5	2	0	0	0	35	27,28
Bahtim	2.2	1.7	2.7	20	10	6	1	0	0	0	29	27,28
Kharga. . . .	2.1	1.2	2.9	23	13	1	0	0	0	0	28	5

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